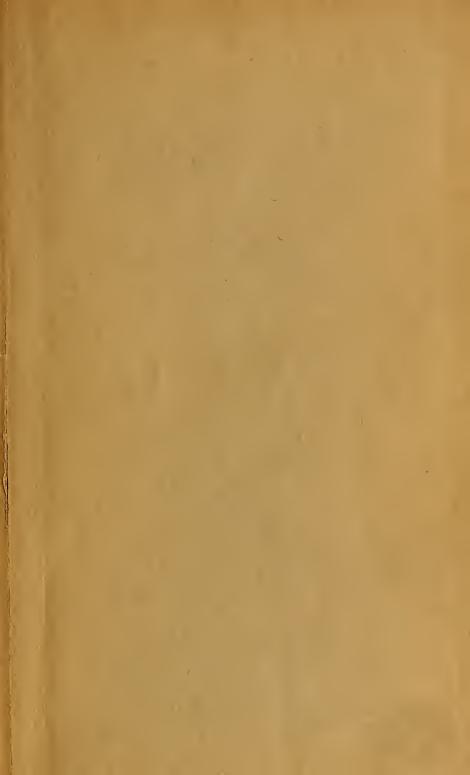


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# ANNUAL REPORT

OF THE

# FIRE DEPARTMENT AND WIRE DIVISION

OF THE

# CITY OF BOSTON

FOR THE

YEAR ENDING JANUARY 31, 1923



CITY OF BOSTON
PRINTING DEPARTMENT
1923

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#### ANNUAL REPORT

OF THE

# FIRE DEPARTMENT

FOR THE YEAR 1922-23

Boston, February 1, 1923.

HON. JAMES M. CURLEY,

Mayor of the City of Boston:

DEAR SIR,— I have the honor to submit, in accordance with section 24, chapter 3, Revised Ordinances of 1914, City of Boston, the annual report of the Fire Department for the year ending January 31, 1923.

I assumed the office of Fire Commissioner on August 24, 1922, relieving Major William J. Casey, Superintendent of the Printing Department, who had served as acting Fire Commissioner from April 1, 1922. During the interim from February 1, 1922, to April 1, 1923, the office of Fire Commissioner was held by acting Fire Commissioner Joseph P. Manning, chairman of the Board of Trustees of the Boston City Hospital.

#### FINANCES.

The total expenditure for the department for the year was \$3,375,809.93, which includes an appropria-

tion of \$85,537.27 expended by the Wire Division, and the following amounts expended under special appropriations:

Engine 7, new building	 \$16,764 16 11,542 83 9,997 00
Total special appropriations	\$38,303 99

The revenue of the department for the year amounted to \$72,589.66.

#### Fire Loss.

During the year the department responded to 6,134 alarms, of which number 2,733 were box alarms. The remainder were what is known as still alarms, i. e., automatic, telephone, etc. While the total number of alarms responded to is higher than it has been for many years, it should be noted that the loss for 1922 amounted to \$3,304,595, or \$705,606 less than in the previous year. In my opinion there is little opportunity for comparison between the fire loss of ten years ago and the fire loss of today. There is no question but that the high fire losses of today can be attributed to the inflation of property values which has prevailed during and since the war. The same property destroyed in 1912 and 1922 would show a much larger loss for the latter year.

#### MOTORIZATION.

Ten new pieces of motor apparatus were added to the department during the year and were placed in service displacing some of the old horse-drawn equipment. The motorization of the department has been gradual but not rapid. In my opinion the time has arrived for the city to complete the motorization of its equipment. I believe the proper policy to pursue would be to appropriate sufficient money to complete the motorization of the department in 1923. Only in this way will the Boston Fire Department keep astride of the other cities of the country and maintain its high standard of efficiency.

I earnestly recommend therefore that an appropriation large enough to carry out this policy be provided

for 1923 so that all horse-drawn equipment may be displaced, and motor-driven apparatus installed throughout the department.

#### BUREAU OF FIRE PREVENTION AND INTELLIGENCE.

During the year the Fire Prevention Bureau was completely reorganized. Instead of detailing fifteen men to the Bureau at headquarters, two men from each district were detailed as inspectors within their respective districts. These men are under the direction of their superior officers. The advantages gained from this change are many. In particular, the men inspect buildings in their local districts where they are called upon to fight fires and are thereby given an opportunity to familiarize themselves with the conditions in their own districts, and gain considerable valuable information which will be of assistance to the department in many emergencies.

#### DEPARTMENT SCHOOLS.

The schools of the department have been successfully conducted throughout the year. Many members of departments from various cities and towns in New England were permitted to attend our schools upon the request of their chief officers. At the present time the department conducts a Fire College, Drill School, Chauffeurs' School, Engineers' School, and a School for Instruction in the Care of Motor Apparatus.

In addition to the foregoing the Fire Department co-operated with the Massachusetts Department of Education, Division of University Extension, so that members of this department were afforded an opportunity to take advantage of the University Extension Courses conducted by the Commonwealth.

In conjunction with Boston Metropolitan Chapter, The American Red Cross, courses in resuscitation were conducted in the department, and every member was drilled in the Shafer Prone Method of Resuscitation. Exercises in this method of resuscitation have been included in the weekly drills of each company, and the lessons learned in these cases have been successfully applied on several occasions.

#### FIRE ALARM BOXES.

There are now 1,268 boxes in the fire alarm system, an increase of thirty-two during the year. Over nine hundred of these boxes are accessible to the public, and the remainder are private boxes. During the year all fire alarm boxes and posts were painted.

#### MISCELLANEOUS.

Thawing devices were placed on motor pumping engines of the department for use during freezing weather. A thawing device is an essential part of the equipment of gasolene pumping engines, and is necessary for use when a frozen hydrant is encountered at a fire.

The work of remodeling the quarters of Engine Company 28 and Ladder Company 10, Centre street, Jamaica

Plain, was completed at a cost of \$14,995.

A contract amounting to \$38,900 was let for a new house for Engine Company 7, East street. The work is now going forward, but was slightly delayed owing to difficulty in obtaining materials and being hampered by labor conditions.

#### RECOMMENDATIONS.

There are three important matters which require immediate attention if the Boston Fire Department is to maintain the high position it has held for many years.

The first of these items is the fire alarm office.

When the present site on Bristol street was selected for a fire alarm office no doubt those who made the selection felt it would take care of the needs of the city for many years. Nevertheless, the capacity of the fire alarm office is overtaxed at the present time. There is no room whatever to accommodate the future needs of the city. In addition the office is exposed to a very serious fire hazard. Several serious fires have occurred in recent years in the immediate vicinity of the fire alarm office, and it is only due to the extra precautions taken that the office has been preserved.

I heartily recommend that a thorough study be made of this problem with the idea in view to erect an adequate and fireproof fire alarm station somewhere in the park system of the city where there will be no exposure

hazard of any kind.

Another important item which requires attention

is the condition of the fire stations of the city.

The buildings now used for fire stations were erected many years ago, and at the present time do not conform to the requirements of a modern fire department. Some changes have been made but the progress has been very slow. Today we have stations which were erected to house horse-drawn equipment and small companies of men. Motor apparatus has replaced the horses, and the personnel of the companies has increased. The houses generally have not been changed to meet the demands of the new conditions. In many cases they are uncomfortable and unsafe, and in some cases unsanitary.

I recommend that a program be mapped out and followed, calling for the appropriation of a certain amount of money each year, to provide for remodeling department houses. The expense to accomplish this result would be too great to be assumed in any one

year.

The location of Engine Company 26–35 on Mason street has come under my close observation. This, as is well known, is a very narrow street, and due to this and the congested traffic conditions in this particular section of the city, the apparatus located here is greatly hampered in responding to alarms of fires. Parking is permitted on the street, and delivery trucks are

constantly coming and going.

After studying this question for some time I have come to the conclusion that a location at the junction of Shawmut avenue and Tremont street would be a proper and excellent location for a central fire station to house the chief of department, district chief and the two companies now stationed in Mason street. There is land owned by the city over the subway entrance which would provide an excellent site for a fire station, and the junction of streets at this location would improve the opportunity for the apparatus stationed in a house there to get a good start in responding to an alarm of fire.

#### Conclusion.

I desire to record here the wonderful spirit of co-operation manifested by the citizens of Boston in any matters concerning the Fire Department. Through their assistance and co-operation we have been particularly able to make the various Fire Prevention and Clean-Up

Campaigns successful.

I also wish to express my appreciation of the assistance and co-operation rendered to me and the Fire Department in general by the heads of the various city depart-

ments and public service corporations.

I wish to extend to all employees of the department my sincere thanks for the excellent manner in which they have performed their duties at all times, and I appreciate their earnest endeavor to maintain the high standard of efficiency which exists in the Boston Fire Department.

Yours very truly,

THEODORE A. GLYNN, Fire Commissioner.

NAMES OF CHIEF	ENG	INEE	RS,	OR (	CHIE:	F OF	DEP	ARTMENT,
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January, 1826								Í
Samuel D. Harris								1826-28
Thomas C. Amory								1829-35
William Barnicoat								1836 - 53
Elisha Smith, Jr.								1854 - 55
George W. Bird								1856-65
John S. Damrell.								1866-74

William A. Green\* 1874 - 84Lewis P. Webber 1884-1901 William T. Cheswell 1901 - 06John A. Mullen . 1906 - 14John Grady\* 1914 Peter F. McDonough. 1914 - 19Peter E. Walsh . . . 1919 - 22John O. Taber . 1922

<sup>\*</sup> Appointed Fire Commissioner.

#### REPORT OF CHIEF OF DEPARTMENT.

Boston, June 1, 1923.

FROM: THE CHIEF OF DEPARTMENT. TO: THE FIRE COMMISSIONER. Subject: Annual Report, 1922-23.

I beg to submit the following summary of activities of the department in general for the fiscal year 1922-23:

#### FIRE LOSS.

Loss (exclusive of Mari Marine loss				3,304,595 3 14,336 4	79 42
Total loss			\$3	3,318,932	21
Number of alarms . Average loss (each)				6,13 \$541	
Number of actual fires Average loss (each)				5,18 \$643	

#### Additions and Changes.

#### Apparatus.

May 29, 1922, an American LaFrance motor-driven 85-foot aerial truck was placed in service with Ladder Company 13, replacing a Christie tractor-drawn aerial truck. Weight, fully equipped, without men, 10,500 pounds; 72 horse power.

June 12, 1922, an American LaFrance combination hose and chemical car was placed in service with Chemical Company 5, replacing old American LaFrance combination chemical car. Weight, fully equipped, without men, 10,500 pounds; 72 horse power.

June 28, 1922, a Christie tractor-drawn steam fire

engine was placed in service with Engine Company 4, replacing horse-drawn steam fire engine and three horses. Weight, fully equipped, without men, 14,210 pounds; 48.6 horse power.

July 13, 1922, an American LaFrance 750-gallon combination pumper and hose motor car was placed in

service with Engine Company 6, replacing horse-drawn steam fire engine and three horses. Weight, fully equipped, without men, 11,030 pounds; 72 horse power.

July 19, 1922, an American LaFrance 750-gallon combination pumper and motor hose car was placed in service with Engine Company 12, replacing horse-drawn steam fire engine and three horses. Weight, fully equipped, without men, 11,030 pounds; 72 horse power.

July 19, 1922, an American LaFrance combination hose and chemical car was placed in service with Engine Company 12. Weight, fully equipped, without men, 9,470 pounds; 72 horse power. This replaces a horse-

drawn hose wagon and two horses.

July 21, 1922, an American LaFrance 750-gallon combination pumper and hose motor car was placed in service with Engine Company 24. Weight, fully equipped, without men, 11,030 pounds; 72 horse power. This replaces horse-drawn hose wagon and two horses.

July 28, 1922, Chemical Company 10 was disbanded, the apparatus placed in reserve, and the members of

the company reassigned.

August 1, 1922, an American LaFrance combination hose and chemical car was placed in service with Engine Company 13, replacing horse-drawn hose wagon and two horses. Weight, fully equipped, without men, 9,470 pounds; 72 horse power.

August 1, 1922, an American LaFrance 750-gallon combination pumper and hose motor car was placed in service with Engine Company 13, replacing horse-drawn steam fire engine and three horses. Weight, fully equipped, without men, 11,030 pounds; 72 horse power.

August 1, 1922, a Mack truck, equipped for carrying coal, was installed as a fuel car, and housed in the quar-

ters of Rescue Company 1.

August 9, 1922, an American LaFrance 750-gallon combination pumper, hose and chemical car was placed in service with Engine Company 49, replacing a Seagrave combination hose and chemical motor car. Weight, fully equipped, without men, 11,030 pounds; 72 horse power.

August 10, 1922, an American LaFrance 1,000-gallon combination pump and hose motor car was placed in service with Engine Company 7, replacing horse-drawn steam fire engine, hose wagon and five horses. Weight, fully equipped, without men, 11,500 pounds; 72 horse power.

August 10, 1922, a Christie front-drive tractor, attached to a horse-drawn city service ladder truck, was placed in service with Ladder Company 26, replacing horse-drawn ladder truck and three horses. Weight, fully equipped, without men, 13,600 pounds; 48.6 horse power.

August 25, 1922, a Seagrave combination hose and chemical car was placed in service with Engine Company 45. Weight, fully equipped, without men, 9,470 pounds; 48.6 horse power. The addition of this piece of appara-

tus makes this a double-unit company.

October 13, 1922, Chemical Company 5 was disbanded, the apparatus placed in reserve, and the members of the

company reassigned.

October 13, 1922, an American LaFrance combination chemical and hose motor car was placed in service with Engine Company 48. Weight, fully equipped, without men, 9,470 pounds; 48.6 horse power. The addition of this piece of apparatus makes this a double-unit company.

October 17, 1922, an American LaFrance combination chemical and hose motor car was placed in service with Engine Company 37, replacing an old type American LaFrance hose motor car. Weight, fully equipped,

without men, 9,470 pounds; 72 horse power.

November 29, 1922, an American LaFrance combination chemical and hose motor car was placed in service with Engine Company 45, replacing Seagrave hose motor car which was installed on August 25, 1922. Weight, fully equipped, without men, 9,470 pounds; 48.6 horse power.

December 11, 1922, a Seagrave combination chemical and hose motor car was placed in service with Engine Company 1, replacing old type American LaFrance hose motor car. Weight, fully equipped, without men,

11,600 pounds; 48.6 horse power.

December 18, 1922, Reserve Tower, Serial No. 402, was placed in service with Tower Company 1, thus re-

placing Tower 1.

January 8, 1923, an American LaFrance combination pumper and hose motor car was placed in service with Engine Company 43, replacing a Christie tractor-drawn steam fire engine. Weight, fully equipped, without men, 11,030 pounds; 72 horse-power.

January 8, 1923, an American LaFrance combination pumper and hose motor car was placed in service with

Engine Company 11, replacing old type American LaFrance pumper. Weight, fully equipped, without men, 10,830 pounds; 72 horse-power.

January 8, 1923, an American LaFrance combination pumper and hose motor car was placed in service with Engine Company 19, replacing a Seagrave pumper. Weight, fully equipped, without men, 11,030 pounds; 72 horse-power.

January 8, 1923, an American LaFrance combination pumper and hose-motor car was placed in service with Engine Company 53, replacing a Seagrave pumper. Weight, fully equipped, without men, 12,200 pounds:

72 horse-power.

January 13, 1923, an American LaFrance combination pump and hose motor car was placed in service with Engine Company 45, replacing the American LaFrance pumper installed on November 29, 1922. Weight, fully equipped, without men, 12,200 pounds; 72 horse-power.

## Chiefs' Automobiles.

There were four (4) new automobiles purchased for use by various chief officers, thus replacing vehicles that had become worn through constant service.

#### Buildings.

The remodeling of the quarters of Engine Companies 26-35 was completed, the said work consisting of adding an additional floor, thus making the same a three-story structure. By this change the men are afforded the advantage of more comfortable quarters, in view of the fact that the companies are two of the most important in the down-town section.

In the outlying section of the city, the upper floors of Engine House 28 were entirely reconstructed to conform to the requirements of the building law, and also to afford more commodious quarters to the members

housed therein.

At the quarters of Ladder Company 23, in the Grove Hall section, provisions were made, by extensive alterations, for the housing of the deputy chief of the third division. The dormitory and officers' rooms were also relocated to provide more adequate facilities for all members concerned.

At the quarters of Engine 1 and Ladder 5, a double

company, the entire interior was painted, the tile work and chimney repaired, the plaster repaired, and the radiator relocated.

Work was commenced on removing the stucco from the exterior of the quarters of Engine Company 44, and replacing the same with copper shingles, thus providing a more substantial structure. This work, however, will not be completed until the early part of the coming fiscal year.

#### APPARATUS AND EQUIPMENT.

Thorough inspections and tests of apparatus, equipment, and hose were made from time to time during the past year. Wherever defects were discovered, replacements and repairs were immediately made, in order that at no time should there be an impairment of service.

#### Building Inspection.

The past practice of systematic weekly inspections by officers was continued this year, as it was found that constant attention in this respect was essential, due to the disregard by many property owners and tenants, of warnings issued by this department to clear stairways, dispose of unsightly and dangerous accumulations, and to comply with the city ordinances. It is only in this manner that the safety of tenants and employees can be assured.

Theaters, moving-picture houses, and halls were inspected weekly, and particular stress was laid upon the condition of fire-extinguishing appliances, as in a great many instances in the past the owners of these particular types of structures were wont to neglect this phase of protection afforded their patrons.

All public buildings and schoolhouses were inspected monthly, and the conditions as found were forwarded through channels to department headquarters. Defective conditions were noted and immediate steps were

taken to remedy the same.

On April 20 the Fire Prevention Bureau was reorganized and renamed "The Bureau of Fire Prevention and Intelligence." The inspection squad, comprising one officer and fifteen privates, was relieved from duty and the members thereof were assigned to various companies throughout the department. Hereafter, inspections are to be carried on by two privates from each district (a total of thirty inspectors) who will forward their reports promptly through channels to department headquarters for disposition. It is intended to cover a much wider field under this plan than has heretofore been the case.

#### FIRE CARD.

Preliminary steps are now under way in the formation of a Fire Card, the object of which is to answer as accurately and promptly as possible such questions as inevitably arise in the mind of the officer in command at a fire, as he forms for battle and hurriedly plans how best to strike. Such information at such a moment may often mean the difference between a knock-out and a drag-out fight, between small losses and large losses.

As an aid to the fire chief in determining his best line of attack, the card aims to inform him of the character of the battleground and of the factors favorable or unfavorable in the situation. It, therefore, shows:

1. The accesses or "holes," whether cut through walls, as entrances, fire-doors, etc., or through floors, as stairways, elevator wells, etc.

2. The "helps," such as sprinklers, standpipes, fire-

escapes, etc.

3. The "hindrances" or obstructive features, such as structural weaknesses, exposures, contents of menacing nature, etc.

4. Any other information of fire-fighting value.

The card is devised to furnish maximum information in minimum space, with an assigned place for each item, so that any required point may be readily located. The filling out will involve very little time or trouble, once the facts are in hand; and, with the makeup of the card understood, the information contained can be readily grasped.

The card takes cognizance only of the permanent, features of a building. Unlawful conditions of temporary nature, and easily remedied, will not be noted on the card but memorandum of such should be made and referred to the Bureau of Fire Prevention and Intelligence for action.

Collectively, the cards constitute advance studies of potential battle-grounds, with a view to basing operations on exact knowledge, rather than on guess-work, when the crisis comes.

#### MUTUAL AID.

The department responded to thirty-one (31) alarms of fire outside of the city limits, divided as follows:

Cambridge, 1; Somerville, 11; Milton, 19.

It is indeed gratifying to note that much good has accrued as a result of this plan of interchange of service in time of urgent necessity.

#### Schools.

During the year eleven (11) appointees successfully passed the thirty days' intensive course of instructions in the department drill school. A member of the Natick Fire Department was also present during this

One hundred thirty-two (132) members of this department attended the lectures at the Fire College. Nine (9) representatives from Lynn, Everett, Natick and Milton also attended the course of lectures. The subjects covered were Marine Fires, Fire Alarm Operation, Building Inspection, Fire Prevention, Motor Apparatus, Water, Explosives and Combustibles, Fire-Fighting Tools and Appliances, Discipline, and Fire Extinguishment.

It is pleasing to note, in connection with the above courses mentioned, that the popularity of the subjects treated has attracted the attention of the officials of neighboring cities and towns, who have seen fit to send as many men as possible to gain an insight into the most modern methods employed in the prevention and extinguishment of fire.

One hundred eighty-six (186) members attended the Chauffeurs' School, receiving practical road lessons through the most congested sections of the city, and were also instructed in the care and operation of motor

vehicles.

One hundred twelve (112) members attended the motor pump school, and were given practical instructions in the care and operation of gasolene pumping engines under every possible condition that is to be met

at any fire that may occur.

The small number of men who attended the Steam Fire Engine School, seven (7) in all, is due to the fact that the steam fire engine as a medium of fire extinguishment is gradually but surely being supplanted by the gasolene-driven pumping engine, which latter apparatus, for fire-fighting purposes, is by far more effective.

#### FIRE PREVENTION WEEK.

The week from October 2 to 9 was set aside as Fire Prevention Week, and, in addition to the usual inspections by district and company officers, one member from each engine and ladder company, in its subdistrict inspected the cellars and yards of stores, and the cellars, backstairs and roofs of dwelling houses containing three or more families, with a view towards causing the removal of combustible rubbish, obstructions to egress, etc. The said inspections were made between meal periods, viz., 10 a. m. to 12 m. and 3 p. m. to 5 p. m. Each inspector submitted to department headquarters, daily, the street and number of each building inspected.

The inspectors detailed to the Bureau of Fire Prevention and Intelligence, together with such additional members of the department who were placed in this service during the week in question, inspected the high value district of the city for the purpose of causing the removal of combustible rubbish, articles blocking egress, and other simple but hazardous conditions tending to

create a fire menace.

Lectures on Fire Prevention were delivered by district and company officers in the various public schools, upon request; also fire drills were held during the week. District chiefs arranged with masters of the several schools for the time for lectures and drills. The subjects covered in these lectures were for the most part taken from the following bases:

Statistics show a property loss by fire in the country of approximately \$500,000,000, with an estimated loss of life of upwards of fifteen thousand persons.

Experts say that eighty (80) per cent of the above loss of life

and property was due to carelessness.

One of the most prolific causes of loss of life and property from fire is the careless habit of permitting accumulations of waste combustible material in cellars, attics, etc.

#### COMPANY DRILLS.

- 1. The annual company drills at Headquarters commenced September 1, 1922, and were completed November 13, 1922. While the main purpose of the drills is to acquire accuracy and standards in the execution of the duties of firemen, nevertheless the drills this year were marked not only in increased efficiency in these two characteristics, but in a general reduction in time of performance over that of previous years. The evolutions performed were as follows:
- 1. Connect two lines, 100 feet each, from engine to deluge set.
- 2. Connect two lines, 100 feet each, from engine to Morse gun.
- 3. Raise 50-foot ladder to fourth floor window and dog same.
- 4. Run 200 feet of  $2\frac{1}{2}$ -inch line over 50-foot ladder, up stairway and show pipe out fifth floor window.
- 5. Raise 30-foot ladder to fire escape, carry 17-foot ladder over same to story above. Dog 30-foot ladder.
- 6. Run 250 feet of  $2\frac{1}{2}$ -inch line over 30-foot ladder, over fire escape to roof, 75 feet from ground.
- 7. Take life line and haul 25-foot ladder to roof 75 feet from ground.
  - 8. Take life line, haul 200 feet  $2\frac{1}{2}$ -inch hose to roof.
- 9. Run 100 feet  $2\frac{1}{2}$ -inch hose from engine, connect Morse gate and Bresnan nozzle.
- 10. Connect chuck to hydrant (flexible suction), water to engine.
- 2. The following pages show the result of the drills in which all companies participated, except the three fireboat crews. These tables show the list of companies drilling, the time consumed in each evolution, and the time consumed by each company in completing all evolutions.

# DIVISION ONE.

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DIVISION TWO.

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DIVISION THREE.

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Engine Company 21	2	10		40		38	1 2	25	1 45		1 5		39	-	41		43		41		40	10	22
Engine Company 24	22	6		37		92		11	1 22		49		26	_	56		35		16		33	œ	41
Ladder Company 4	61	12		41		59	1	10	1 28		1 7		39		21		37		21		37	6	30
Engine Company 12	-	12		59		20	43	22	1 32	OI.	48		21	1	26		37		20		29	œ	.61
Engine Company 23	01	∞		47		25	- 2	20	1 31		58	_	27		26		36		19		27	6	16
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Engine Company 52	2	2		31		31	1 3	32	1 25	10	58	-	55	_	55		54	-	33		31	10	45
Ladder Company 29	-	2		33		56	-	00	1 45	10	42		54	_	44		53		27		51	10	23
Engine Company 18	63	œ		32		59	-	6	1 28		58	7	38	_	20		51		35		36	10	9
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DISTRICT No. 12.																							
Engine Company 28	-	œ		40		23	22	20	1 34		1 15		04		55		55		37		35	10	54
Ladder Company 10	-	2	-			35		35	1 35		1 10		48	21	15	-	30		32		20	12	20
Engine Company 42	-	2		37		37	1	18	1 37			_	40	C1	15		45		30		35	10	54
Ladder Company 30	7	9	-	33		24	-	#0 H	1 31		55	=	45		55	_	53		21		42	10	39

Ladder Company 23	2	<u>~</u>	42		27	-	3	1 34	=	54	-	41	-	34		52	118	_	45	6	20
DISTRICT No. 13.																-					
Engine Company 30	-	1-	37	_	20	-	00	1 33	~	51	-	38	-	55		46	22		35	6	20
Ladder Company 25	-	ž	35		30	- 2	56	1 35	10	55	-	45	-	43		26	30		37	10	35
Engine Company 45	-	9	35	10	24	1 2	56	1 24		53	2	20	_	41		22	29	==	44	10	53
Ladder Company 16		7	38	~	28	1 2	25	1   50		10	2	2	° 67			52	27	1		11	55
Engine Company 53	-	10	35		40	- 3	35	1 35			-	35	П	42	-	20	23		20	Ξ	15
DISTRICT No. 14.																					
Engine Company 16	2	00	28	~	56	1 1	17	1 27		55	-	40	_	34		44	20		56	6	17
Ladder Company 6	-	00	29		26	1	18	1 24		42		29	7	47		57	- 28	~	38	6	38
Engine Company 46	61	11	34		20	1 3	34	1 16		43	_	30	-	18		39	24		31	00	49
Engine Company 20	2	11	24		19	1 1	18		7	58	_	38	_	35		40	20	•	40	00	59
Ladder Company 27	-	00	25		25	-	6	1 33		20	-	51	-	41		44	23		29	6	30
Drampton No. 15																					
Engine Company 40	-	10	27		66			96		5	-	8	-	36		57	26		37	Ç	49
Engine Company 48	1 6	0 00	. 64		66	-		1 66		70	-	46	-	66		6	2.5		04	· c	59
Company 10	3	)	ř .		}	4				3		7	•	1		3			, ,	, (	k
Ladder Company 28	-	-	45		35	_	00	1 50		44	_	30	-	47		20	21		35	01	o
Engine Company 19	1	9	39		22	1 4	40	1 20		57	1	45	2		-	10	20		45	10	28
				CoM	PANY	COMPANY RECORDS.—BY DISTRICTS.	RDS.	- By	Distr	ICTS.											1
No. 9 Engine Company 12	•									٠					٠			8 minut	es 19	secon	ds.
District No. 12.— Engine Company 18 District No. 12.— Ladder Company 23 District No. 12.— Ladder Company 23 District No. 13.— Fraging 20	• •			٠.		٠.				٠.				٠.	٠.	٠.		9 minutes 50 seconds.	es 50	secon	i e
No. 14.— Engine Company 46 No. 15.— Engine Company 46										٠.								8 minut	88 49 49 49	secon	ds.
to: to:	•		•			•															

#### HYDRANTS.

The following is a list of the types and number of each, of hydrants, in service for fire purposes, as of January 31, 1923:

$4,134 \\ 3,275$
3,275
1,413
580
376
313
272
192
20
4
2
—
10,581

#### HIGH PRESSURE SYSTEM.

The records of our two high pressure stations for the

year are as follows:

Station No. 1.— Total alarms to which pumps responded, 240; total time pumps actually operated, 60 hours 38 minutes. Gallons of water discharged, 230,000.

Station No. 2.— Total alarms to which pumps responded, 169; total time pumps actually operated, 75 hours 39 minutes. Gallons of water discharged,

832,000.

A description of the Venturi meter, used in recording the water discharge, will no doubt prove of great interest. There is one installed in each station, and it resembles a tall, clocklike instrument, placed in line with and adjoining the operating board. Inside of the casing are two independent clocks. One of these revolves the chart on which the fluctuating flows are recorded in red ink, i. e., the exact amount and the exact time corresponding with our standard time. The other clock operates the continuous flows similar to a gas-meter, and after each working fire, the latest reading may be subtracted from the previous one, and this manner it is possible to obtain the flow for either the individual operation or the operations for the entire year.

The indicators on this meter are actuated by the velocity of the water passing through a short section of

pipe placed in the main discharge line and outside of the station. The contracted pipe is 16 inches at the entrance and 9 inches at the throat, and the water in passing through this pipe at high velocity does so with a differ-

ence in pressures.

The difference in pressures, above-mentioned, is brought to the clock arrangement by two three-quarter inch brass pipes which change the position of the two columns of mercury and floats, and by this change the gallons passing through per minute are calibrated. Furthermore, owing to the construction of these meters they do not record flows under six hundred gallons per minute.

The accuracy of the Venturi meter is unquestioned, in view of the fact that its records and readings are accepted by the National Board of Fire Underwriters as authentic. In addition to the recording of flows, the meter also keeps the operator posted as to what his pumps are doing, thus enabling him to intelligently cut in other pumps at the proper time, and, conversely, if need be, to discontinue them.

From time to time tests have been conducted from both stations, at which representatives were present from leading underwriting boards, both national and

local, all of which tests were very successful.

I can truthfully say that the High Pressure problem in the City of Boston has passed through the experimental stages, and from the practical work performed under stress, it has proven an absolute necessity in the extinguishment of fires in the high value section of the city. It is hoped that rapid strides will be made in the extension of this system in the future, in order that the city may be adequately protected at all times.

#### RECOMMENDATIONS.

#### Apparatus.

In order that the motorization of this department may be one hundred per cent complete, and, furthermore, in order that we may be enabled to dispose of horses entirely from our fire service, I earnestly recommend the acquisition of the following major motor-driven firefighting apparatus to be located in the houses specified:

Engine Company 9, Paris Street, East Boston.—One 750-gallon pumper, one combination chemical and hose car to replace horse-drawn engine and hose wagon.

Engine Company 40, Sumner Street, East Boston.— One 750-gallon pumper, one combination chemical and hose car to replace horse-drawn engine and hose wagon.

Engine Company 27, Elm Street, Charlestown.—One 750-gallon pumper, one combination chemical and hose car to replace horse-drawn engine and hose wagon.

Engine Company 32, Bunker Hill Street, Charlestown.—One 750-gallon pumper, one combination chemical and hose car to replace horse-drawn engine and hose wagon.

Engine Company 29, Chestnut Hill Avenue, Brighton.—One 750-gallon pumper, one combination chemical and hose car to replace horse-drawn engine and hose wagon.

Engine Company 34, Western Avenue, Brighton.— One 750-gallon pumper, one combination chemical and hose car to replace horse-drawn engine and hose wagon.

Engine Company 17, Meeting House Hill, Dorchester.— One 750-gallon pumper to replace Christie tractor-drawn

steam fire engine.

Engine Company 22, Warren Avenue, South End.—One 750-gallon pumper to replace Christie tractor-drawn steam fire engine.

Engine Company 43, Andrew Square, South Boston.—One 750-gallon pumper to replace Christie tractor-drawn

steam fire engine.

Note.— The three latter-mentioned tractors are practically worn out, and have proven unreliable in their response, due to the fact that the distances to be traversed are so exceptionally long.

Ladder Company 3, Harrison Avenue, South End.—One city service truck to replace horse-drawn truck.

Ladder Company 19, Fourth Street, South Boston.—One city service truck to replace horse-drawn truck.

Ladder Company 23, Washington Street, Dorchester.—
One city service truck to replace horse-drawn truck.

Ladder Company 24, North Grove Street, West End.—One city service truck to replace horse-drawn truck.

Ladder Company 27, Walnut Street, Dorchester.— One city service truck to replace horse-drawn truck.

Ladder Company 7, Meeting House Hill, Dorchester.— One city service truck to replace obsolete motor-driven truck.

Note.— This truck is only dependable when there is no snow on the ground and the weather is normal. Once the cold weather sets in, it is utterly useless, and should never be part of the fire-fighting equipment of an up-to-date fire department.

Ladder Company 2, Paris Street, East Boston.— One 75-feet aerial truck to replace horse-drawn apparatus.

Ladder Company 9, Main Street, Charlestown.—One 75-foot aerial truck to replace horse-drawn apparatus.

#### Reserve Apparatus.

One 750-gallon pumper.

#### FIRE STATIONS.

In order that the fire stations in which our men are housed shall conform more strictly to modern building construction, and, furthermore, that the floors shall be fireproofed in contemplation of the motorization of many companies now having horse-drawn apparatus, I submit herewith a list of quarters requiring new structures or extensive remodelling and repairs:

Engine Company 12.— General repairs and re-

modelling.

Engine Company 11, Ladder Company 21.—Fire-proofing and general improvements.

Engine Company 13.— Alterations and showers. Engine Company 19.— Remodelling and installation of shower baths.

Engine Company 20, Ladder Company 27.— Shower baths and general alterations.

Engine Company 24.— General repairs and shower

baths.

Engine Company 27.— Fireproofing apparatus floor

and improving conditions generally.

Engine Company 28.— Completion of work undertaken under a special appropriation for general rebuilding.

Engine Company 32.— General repairs and shower

baths.

Engine Company 34.— Fireproofing apparatus floor.

Engine Company 40.— New building.

Ladder Company 12.— Repairs to dormitory.

Chemical Company 7.— General repairs and shower baths.

#### Conclusion.

To the Boston Board of Fire Underwriters, the National Board of Fire Underwriters, the New England Insurance Exchange and the National Fire Protection Association, who so kindly co-operated with this depart-

ment in the development of many progressive measures tending towards the elimination of the many common causes of fire, I wish to extend my sincere appreciation. Also to the various municipal departments, public service corporations, and the Boston Protective Department, which rendered such valuable assistance during

the past year, I wish to express my thanks.

Finally, to the members of the department who so devotedly and efficiently performed their many difficult and, at times, hazardous tasks, I can only express my heartfelt gratitude, and it is my hope that this department shall retain its place among the foremost fire departments throughout the world with a continuance of the high caliber of duty already demonstrated by our men in the past.

Respectfully,

John O. Taber, Chief of Department.

#### FIRE ALARM BRANCH.

FROM: THE SUPERINTENDENT OF FIRE ALARM BRANCH.

To: THE FIRE COMMISSIONER.

SUBJECT: ANNUAL REPORT OF FIRE ALARM BRANCH, 1922-1923.

I submit herewith the annual report of the Fire Alarm Branch for the fiscal year ending January 31, 1923:

#### OPERATING DIVISION.

Note.— The records of this division are for the calendar year 1922.

Box Alarms Received and Transmitted.	
First alarms	2,700
Second alarms	42
Third alarms	12
Fourth alarms	3
Total	2,757
Box Alarms Received but not Transmitted	D.
Same box received two or more times for same fire .	259
Adjacent boxes received for same fire	207
Received from boxes but transmitted as stills	8
Total	474
Still Alarms Received and Transmitted.	
Received from citizens (by telephone)	1,909
Received from police department (by telephone)	290
Received from fire department stations (by telephone),	1,248
Received from telephone for which box alarms were	-,
later transmitted	185
Received from department boxes, transmitted as stills	8
Mutual Aid — adjacent cities and towns, classed as	
stills	34
Emergency services, classed as stills	49
Total	3,723

Boston Automatic Company, transmitted by company to department stations	AUTOMATIC AND A. D. T. ALARMS.	
to department stations Department box alarms transmitted in connection with same	*** == = = = = = = = = = = = = = = = =	
Before automatic alarm, after automatic	to department stations	141
Before automatic alarm, after automatic 8 A. D. T. Company received at this office 50 Department boxes transmitted in connection with same, before the A. D. T. alarm, 5; after the A. D. T. alarm, 4 9 Received after still alarms were transmitted 2 A. D. T. alarms transmitted by this office 39  SUMMARY OF ALARMS.  Box alarms, including multiples 3,223 Still alarms, all classes 3,447 Boston Automatic Company, alarms 141 A. D. T. Company, alarms 50  Total received from all sources 6,861  Exclude following duplications: Box alarms received and not transmitted 466 Still alarms for which department box alarms were transmitted 185 Boston Automatic Company, alarms for which department box alarms were transmitted 185 A. D. T. Company alarms for which department box alarms were transmitted 14 Total duplications eliminated 14  Total of alarms with duplications eliminated and to which department apparatus responded 6,178	Department box alarms transmitted in connection	10
A. D. T. Company received at this office  Department boxes transmitted in connection with same, before the A. D. T. alarm, 5; after the A. D. T. alarm, 4	Before automatic alarm, after automatic	
same, before the A. D. T. alarm, 5; after the A. D. T. alarm, 4	A. D. T. Company received at this office	_
A. D. T. alarm, 4		
Summary of Alarms.  Box alarms, including multiples	Same, before the A. D. T. alarm, 5; after the A. D. T. alarm 4	Q
Summary of Alarms.  Box alarms, including multiples	Received after still alarms were transmitted	
Box alarms, including multiples	A. D. T. alarms transmitted by this office	39
Box alarms, including multiples		
Still alarms, all classes		
A. D. T. Company, alarms	Box alarms, including multiples	
A. D. T. Company, alarms	Boston Automatic Company alarms	
Total received from all sources	A. D. T. Company, alarms	
Exclude following duplications: Box alarms received and not transmitted		0.001
Box alarms received and not transmitted	Total received from all sources	6,861
Box alarms received and not transmitted	Exclude following duplications:	
transmitted	Box alarms received and not transmitted	466
ment box alarms were transmitted	Still alarms for which department box alarms were	105
ment box alarms were transmitted	Boston Automatic Company, alarms for which depart-	100
box alarms were transmitted	ment box alarms were transmitted	18
Total duplications eliminated	A. D. T. Company alarms for which department	1.4
Total of alarms with duplications eliminated and to which department apparatus responded 6,178	box alarms were transmitted	14
which department apparatus responded 6,178	Total duplications eliminated	683
which department apparatus responded 6,178		
	Total of alarms with duplications eliminated and to	6 179
F A D D	which department apparatus responded	0,178
FIRE ALARM BOX KECORDS.	FIRE ALARM BOX RECORDS.	
Boxes from which no alarms were received 472		472
Box tests and inspections	Box tests and inspections	

(Note. - All keyless doors are tested weekly.)

#### CONSTRUCTION DIVISION.

### EXTERIOR WORK.

The prescribed districts of 1920 and 1921, wherein overhead wires were to have been removed, were elim-

inated by law because of the burden imposed on corporations and city departments as a result of war conditions. Quite extensive improvements in the underground system were planned by this department, however, but cable, which under the contract should have been delivered in October, was not delivered until after snow came in December and as a result the bulk of the work remains uncompleted.

Fifteen fire alarm box posts, two cable test posts and two combination cable traffic bell posts were set. Thirty-four box posts and two cable test posts were reset or replaced by new for various reasons. Two thousand eight hundred seventy feet of ducts were laid underground; two manholes and three handholes were built, and two hundred sixty-six feet of ducts were abandoned.

Twenty-six thousand seven hundred twenty-six feet of cable was hauled into underground ducts for extension of service and to make possible the removal of overhead wires and about five thousand feet of cable was installed to replace defective cable. Ten miles of line wire and sixty-six hundred feet of cable was strung on poles as extensions to system and to replace old and about five miles of wire and about four thousand feet of cable was removed from poles.

Thirty-two new fire alarm boxes were established. Seventeen of these boxes are for the use of the general public. All fire alarm boxes and posts were painted.

Many changes and additions were made to the lighting equipment in several department stations.

#### Underground Cables Installed.

#### City Proper. Post Office square, Milk street to Water Cond. Feet. 350 19 Washington street, West street to Summer 675 New post connections . 61 100 New post connections . 37 81 New post connections . 20 50 New post connections . 19 220 New post connections . . . . 10 370 South Boston. H street, East Broadway to East Fourth

10

300

street . . . . . . . . .

Dorchester.		
Columbia road and Hancock street, Up-	Cond.	Feet.
hams Corner to Jerome street	19	1,184
Hancock street, Jerome street to Bowdoin	10	1 001
street	19	1,931
atus at	19	1,634
Post and pole connections	20	70
Post and pole connections	4	200
Roxbury and Jamaica Plain.		
Huntington avenue. Wait street to South		
Huntington avenue	10	2,065
	10	5 110
Dudley street, Adams street to Engine 12,	10	5,118 1,163
School street, Washington street to Byron	10	1,100
court	10	624
Brookline avenue, Box 2312 to Box 2316,	10	1,050
Brookline avenue, Lansdowne street to	6	1,408
Fullerton street	6	290
New post and pole connections	$\overline{4}$	462
Brighton.		
Market street, Washington street to West-		
ern avenue	10	6,040
monwealth avenue	4	493
New post and pole connections	6	473
New post and pole connections	$\overset{\circ}{4}$	375
Fire Alarm Box Posts Installed with Duc	T LENG	THS.
$South\ Boston.$		
Foot Fourth and U streets		Feet.
East Fourth and H streets	•	49
East Sixth and I streets		110
Donaloston		
Dorchester.  Massachusetts avenue and Clapp street (2 ducts)		17
Pleasant and Thornley streets.	•	11
Roxbury.		
St. Mary's and Mountfort streets		107
Jamaica Plain.		
School street opposite Byron court		32
J. O. C.		

$West\ Roxbury.$											
	4.5										
Poplar street and Hillside avenue	45										
Belgrade and Colberg avenues	22										
Belgrade avenue and Bradwood street	32										
Beech street and Colberg avenue	18										
Anawan and Clement avenues	25										
Maple and Garden streets	18										
Brighton.											
Cambridge street near Gas Works	14										
Commonwealth and Summit avenues	18										
Commonweaton and Summit avenges	10										
FIRE ALARM BOX POSTS RESET.											
State and Kilby streets (raised to new grade).											
Dartmouth and Buckingham streets (raised to new grade).											
Dewey square (raised to new grade).											
Huntington and Parker Hill avenues (raised to new grade)											
Huntington avenue and Forsyth street (raised to new grad											
Jersey and Queensberry streets (raised to new grade).	.,.										
Brookline avenue and Fullerton street (change of curb line	١.										
Cambridge and Charles streets (relocated)	13										
Brainerd road and Gorham street (relocated)	18										
Stuart and Carver streets (relocated)	125										
Commonwealth avenue and Deerfield street (new type post											
Hereford and Newbury streets new type posts (2	,,.										
ducts)	15										
Congress street and Dorchester avenue (broken by truck).	20										
Commonwealth avenue and Essex street (broken by truck)											
Compton and Emerald streets (broken by truck).											
Berkeley and Marlboro streets (broken by truck).											
Albany and Northampton streets (broken by truck).											
Dover street and Shawmut avenue (broken by truck).											
Warren street and Rockville park (broken by truck).											
West Cottage and Judson streets (broken by truck).											

Twelve other posts were broken by vehicles which required the replacement of top sections of posts. The post at Milk and Hawley streets was temporarily removed because of the construction of an office building.

NEW CABLE TEST POSTS INSTALLED.

Washington and Cambridge streets, Brighton. Washington and Harvard streets, Dorchester.

NEW COMBINATION TEST-TRAFFIC BELL	Posts.
Tremont and Church streets, 2 ducts	13 feet
Tremont and Eliot streets, 2 ducts	14 feet

Test Post Relocated.	
Dorchester and Centre avenues, 2 ducts	16 feet
Additional Test Post Ducts.	
Harrison avenue and Northampton street, 2 ducts	28 feet
New Conduits.	
Summit avenue, between Commonwealth ave-	
nue and Allston street	423 feet
K street, between Fourth and Fifth streets	262 feet
East Fourth street, near K street H street, between Broadway and East Fourth	70 feet
street	235 feet
New Pole Connections.	
Richmond street at Dorchester avenue (exten-	
sion)	141 feet
Adams street at Dorchester avenue	168 feet 56 feet
Washington street at River street Colliston road at Kilsyth road	221 feet
Windsor road at Corey road	94 feet
Allston street at Summit avenue	32 feet
Anawan avenue at Park street	31 feet
Maple street at Pomfret street	42 feet 203 feet
Longwood avenue at Huntington avenue . Canterbury street at Circuit drive (extension) .	203 feet 25 feet
Canterbury street at Circuit drive (extension).	20 1000
Manholes Built.	
Summit avenue at Allston street.	
K street at East Fourth street.	
K street at East Fifth street (handhole). H street at East Fourth street (handhole).	
Summit avenue at Commonwealth avenue (handhole)	).
Summit avoid at common at order (	
DUCTS ABANDONED.	
Centre avenue at Dorchester avenue, 2 ducts .	73 feet
Longwood avenue at Huntington avenue	33 feet
Cambridge and Charles streets	12 feet 15 feet
Hereford and Newbury streets	35 feet
Eliot and Warrenton streets	25 feet
Public Fire Alarm Boxes Established.	

### Location.

2317. Brookline avenue and Fullerton street.2383. South Huntington avenue, opposite No. 200.

- 2574. Glendower road, opposite No. 83.
- 2575. Beech and Wiggin streets.
- 2645. Washington and Heron streets.
- 2655. North avenue and Wright road.
- 2657. Centre and Stimson streets.
- 2748. La Grange street and Brook Farm road.
- 2752. Perham and Winslow streets.
- 2763. Spring and Cypress streets.
- 3126. Massachusetts avenue and Clapp streets.
- 3574. Randolph and Richmond roads.
- 3626. Adams and Franconia streets.
- 5144. Commonwealth and Summit avenues.
- 5196. Breck avenue and Brayton road.
- 5299. Bellamy and Richards streets.
- 646. Putnam and Falcon streets.

#### SCHOOLHOUSE BOX ESTABLISHED.

2448. School street, opposite Byron court, auxiliary to Theodore Roosevelt School.

### PRIVATE FIRE ALARM BOXES ESTABLISHED.

- 124 Lincoln power station.
- 1288. Federal Reserve Bank.
- 1548. John Hancock building.
- 1668. City Hospital.
- 2354. Peter Bent Brigham Hospital.
- 2461. Lotus place carhouse.
  - 252. Forest Hills storage yard.
  - 342. Boston Elevated carhouse, Dorchester avenue and Park street.
- 3653. Boston Elevated carhouse, Dorchester avenue, near Pierce square.
  - 467. Boston Elevated carhouse, Arlington avenue.
  - 658. Boston Elevated carhouse, Eagle street.
  - 671. Boston, Revere Beach & Lynn Railroad shops, Orient Heights.
- 7125. Army supply base.
- 7336. Boston Elevated carhouse, P street.

### Boxes Relocated.

- 1424. From John Hancock building, 178 Devonshire street to Massachusetts Trust building, 200 Devonshire street.
- 1514. From Eliot and Warrenton streets to Stuart and Carver streets.
- 2764. From Spring and Gould streets to Spring and Billings streets.
- 5126. From Brainerd road, opposite Marshall terrace, to Brainerd road and Gorham street.

From Summit avenue and Allston street to Summit 5143. avenue and Corev road. From Condor street, near Pottery Works, to Condor 647.street, near Brooks street. FIRE ALARM BOXES IN SERVICE. 1,268 891 207 63 107 DEPARTMENT BOXES. On fire alarm box posts . . . . . . . . . . 481 On poles
On buildings
Inside buildings 385 20 5 Equipped with keyless door (bell ringing attachment), 836 . 48 Equipped with keyless doors (glass guards)

Equipped with key doors

Equipped with auxiliary attachments

Designated by red lights 7 15 429 SCHOOLHOUSE BOXES. On fire alarm posts
On poles
On buildings
Inside buildings
Equipped with keyless doors
Equipped with key doors 22 15 101 69 150 57 Equipped with auxiliary attachments
Designated by red lights . . . . . 161 20 AUTOMATIC FIRE ALARM COMPANY BOXES. 6 19 38 9 54 PRIVATE BOXES. On poles
On buildings
Inside buildings
Equipped with keyless doors
Equipped with key doors
Equipped with auxiliary attachments 7 32 68 14

93 11

### CLASSIFICATION OF FIRE ALARM BOXES.

Academies							4
							ī
Armory Asylums							4
Car houses							11
Cemetery							1
Church							1
City vard							2
Home for Aged P	People						2
Hospitals	٠.						21
Hotels							5
Cemetery	lants						26
Museum							1
Museum Navy Yard .							6
Office buildings .							5
Police station .							i
Power stations							6
Power stations . Prison							i
Public hall							1
Pumping station							1
Prison Public hall Pumping station Railroad shops . Railroad stations Railroad vards							5
Railroad stations							5
Railroad yards .							12
Retail stores Restaurant Schoolhouses (pul Schoolhouses (par							5
Restaurant							1
Schoolhouses (pul	blic)						207
Schoolhouses (par	rochial	) .					2
Stock vards .							2
Street boxes (pub	lic)*						880
Stock yards Street boxes (pub Theatres Warehouses Wharves	٠.						28
Warehouses .							9
Wharves							9
Wharves Wholesale houses							3
	Do		Drame				
	ъ02	LES IN	Disti	aicts.		4	
District 1 .		70	Dist	rict	9 .		99
District 2 .		. 68	Dist	rict 1	0 .		 95
District 3 .		33	Dist	rict 1	1 .		115
District 4		. 88	Dist	rict 1	2 .		93
District 5 .		53		rict 1			108
District 6 .		90	Dist	rict 1	4 .		95
District 7 .		. 86		rict 1			77
District 8 .		. 96					

Two boxes are located outside the city limits.

<sup>\*</sup>About one hundred schoolhouse and private boxes are accessible to the public but are not counted as street boxes.

#### POSTS AND CABLE TEST BOXES.

Fire alarm box posts in service Fire alarm box posts set, but not in service	. 503
Test posts in service (large size)	
Test posts in service (small size)	. 13
Pole test boxes in service (underground connection)	. 213
Circuits.	
Box circuits	. 67
Tapper circuits	. 14
Gong circuits	. 13
Special signal circuits	. 3
Telephone circuits in department system	52
Telephone circuits to Beach Exchange	. 9
	. 1
Telephone circuits to Back Bay Exchange	
Telephone circuits to Police Headquarters	. 1
Telephone circuits to A. D. T. Company office.	. 1
Telephone circuits to Edison Electric Illuminatin	g
Company	. 1
Telephone circuits to Boston Automatic Fire Alarr	n
Company	. 1
Telephone connections to Protective Department	

#### Public Clocks.

No extensive improvements were made on any of the tower clocks maintained by this department. Fifty reports of minor troubles were corrected by members of this force.

The Commercial Wharf clock, which has been maintained by the city for many years, has been eliminated from the list of tower clocks which are cared for by this department. The clock is not the property of the city.

## Wires, Cables and Conduits.

	,						
Line wire in service							228 miles.
Aerial cable in service							$26\frac{1}{2}$ miles.
Conductors in same							154 miles.
Aerial cable conducto	rs in	serv	ice				105 miles.
Underground cable in	ser	vice					167 miles.
Conductor in same							2,375 miles.
Underground conduct	ors	in ser	vice				1,269 miles.
Conduits owned by F	ire I	Depai	rtmer	ıt			68,439 feet.
Ducts in Fire Departs	ment	t con	duits				85,915 feet.
Ducts used by Fire I	Depa	rtme	nt in	Ne	w Ei	ıg-	
land Telephone an	$\mathbf{d}^{T}$	'elegr	aph	Con	ıpan	y's	
system							603,178 feet.
Ducts used by Fire De	epar	tmen	t in I	Posta	al Te	ele-	
graph Company's s							5,717 feet.

FIRE DEPARTMENT.	37											
Fire Alarm Apparatus.												
Tappers in service	153											
Boston tappers in adjacent cities and towns												
Tappers connected to adjacent city and town systems												
in Boston Fire Department stations	6											
Gongs in service	111											
Office	30											
Relays in service, excepting those in Fire Alarm Office,	21											
Telephones in department system	157											
2010)2101010111111111111111111111111111												
SUMMARY OF WORK DONE.												
	miles.											
Old wire removed from poles $6\frac{1}{4}$												
Aerial cable installed 6,610	miles. feet.											
Conductors in same	feet.											
Aerial cable removed from service 4,040	feet.											
Conductors in same	feet.											
Underground cable installed in ducts of New England Telephone and Telegraph Company, 22,295	foot											
Conductors in same	iccu.											
partment ducts	feet.											
	feet.											
Total underground cable installed (new work). 26,726	feet.											
Conductors in same	feet.											
Cable used to replace defective cable 4,996	feet.											
Conductors in same	feet.											
Underground cable removed 2,534	feet.											
Conductors in same	feet.											
Ducts in same	feet.											
	feet.											
Ducts abandoned	2											
Handholes built	3											
Fire alarm boxes installed by this department.	17											
Fire alarm boxes installed by Schoolhouse												
Department	1											
Fire alarm boxes installed on private property,	14											
Fire alarm boxes relocated	6											

George L. Fickett, Superintendent.

#### BUREAU OF SUPPLIES AND REPAIRS.

FROM: THE BUREAU OF SUPPLIES AND REPAIRS.

To: THE FIRE COMMISSIONER.

1 wrecking car

SUBJECT: ANNUAL REPORT, 1922-1923.

I report the following is a summary of the activities

of the Bureau of Supplies and Repairs.

We have connected with our bureau 104 employees comprising clerks, chauffeurs and mechanics representing such trades as are necessary for our requirements. These men keep records, deliver supplies, etc., and make repairs for the upkeep and maintenance of the following:

One hundred and eighty motor vehicles, viz.:

	American	- 1	[ ATPn A	27.073							
							٠.				
27	pumping engines						In service.				
4	pumping engines	٠					In reserve.				
	hose cars						In service.				
3	hose cars						In reserve.				
3	high pressure hose cars						In service.				
13	ladder trucks						ш				
	instruction car						u				
Seagrave.											
3	pumping engines						In service.				
10	hose cars						ш				
2	hose cars						In reserve.				
1	ladder truck						In service.				
_		Ť	,	·							
	Christie	T	RACTO	RS.							
13	attached to steam engines						In service.				
4	attached to steam engines						In reserve.				
	attached to ladder trucks						In service.				
	attached to ladder trucks						In reserve.				
Mack.											
1	hose car						In service.				
	0, 11, 1						и				
	41						ш				
	4					-	"				

		v	VHIT	E.									
2	3 ton commovaied tru							In service					
ა 1	3-ton commercial true 2-ton fuel truck .	luns	•	•	•	•		In service.					
1	2-ton ruer truck .	•	•	•	•	•	•						
	AMERICAN AND BRITISH TRACTORS.												
			וכו ע	WII 18	n I.	KACI	ons.						
	attached to water to					٠	•	In service.					
1	attached to water to	wers						In reserve.					
		_											
			UICE										
1	sedan, Commissioner	's ca	r					In service.					
8	touring cars touring car												
1	touring car							In reserve.					
20	roadsters						•	In service.					
	roadsters	•	•		•	•	٠	In reserve.					
T	fuel car	•	•	•	٠		٠	In service.					
		K	OBIN	ISON	•								
1	pumping engine (beir	ng dis	man	tled	for p	arts)	) .	In reserve.					
1	hose car							"					
1	hose car ladder truck							In service.					
		3	Fori	ο.									
4	runabouts, Fire Alar	m						In service.					
4	runabouts, Fire Alar emergency cars, Mot	or sq	uad					"					
1	1-ton truck, Wire Di	visioi	n					"					
		Misc											
1	Velie hose car . Knox hose car .							In service.					
1	Knox hose car . Pierce Arrow, Rescue							«					
1	Pierce Arrow, Rescue	e Con	npan	y 1									
2	self-propelled steam e	ngine	es, or	ne in	serv	ice;	one	in reserve.					
	One hundred and	fort	y-se	ven	hor	se-d	raw	n vehicles,					
viz	z.:												
	steam engines .							In service.					
	steam engines .							In reserve.					
	hose wagons				٠			In service.					
0	hose wagons	•		•				In reserve.					
1	ladder trucks .	•	•		٠	•		In service.					
	ladder trucks	٠	•	• •	٠	•		In reserve.					
	hose pungs.		٠	•	•	٠	٠						
	salt pungs.												
	salt wagons.												
	coal wagons.												

#### FIREBOATS.

3 fireboats . . . . . . . . In service.

### HIGH PRESSURE STATIONS.

2 high pressure pumping stations . . . In service.

#### Buildings.

Headquarters building. Repair shop of Bureau. Sixty-nine fire stations. Coal station, Main street. Veterinary hospital. Fire alarm shop.

Garage, Harrison avenue and Wareham street.

Storehouse, Fourth street.

In addition to the foregoing we receive, distribute, repair, etc., all appliances, hose, uniforms and such other equipment required by our department.

### Motor Activities.

New motor vehicles received during the year

### AMERICAN LAFRANCE.

Seven type 75, 750 gallons' capacity pumping engines. Three type 75, combination chemical and hose cars.

Note.— This apparatus was submitted to the underwriters for inspection and test of pumps, and to our department officials for rigid road test, hill climbing and radious turning before acceptance.

### Buicks.

1 Sedan.

3 touring cars.

4 roadsters.

Note.—These cars were inspected, tested and assigned as follows:

Sedan assigned to Commissioner.

Touring assigned to captain in charge of Bureau.

Touring assigned to Superintendent of Wire Division.

Touring assigned to Deputy Chief, Division 1.

Roadster assigned to District Chief, District 6. Roadster assigned to District Chief, District 8.

Roadster assigned to Veterinary Surgeon.

Roadster assigned to Inspector of Wire Division.

### MISCELLANEOUS.

Eighteen Ross thawing devices installed on motor pumping engines.

We now have twenty-nine of these devices in service

in our department.

Fifty sets of single unit skid chain adapters placed on

motor apparatus.

Note.— By the use of these adapters we eliminated to a great extent the breaking of drive chains, also the breaking and losing of old style skid chains, and creating a considerable saving to this department.

Twelve rectifiers for charging storage batteries on apparatus installed in various quarters outside city

proper.

Fifteen Christie motors rebuilt.

New winch installed on wrecking car replacing one unfit for further service.

Choker attachments placed in all old type motor

apparatus to facilitate easy starting.

Wind shields made and installed on all fire-fighting apparatus placed in service during the year.

Engines 1, 14, 18 and 45 made double unit com-

panies.

Chemical Companies 11 and 13 converted to Engine

Companies 52 and 53.

Ladder brackets placed on Pumping Engines 49, 51 and 53 and each company furnished with one 15-foot roof ladder and one 25-foot extention ladder.

Radious rod discs and brake supports replaced with late type on twelve pumping engines, two hose cars,

one ladder truck.

Three thousand one hundred inspections of motor vehicles by the engineer of motor apparatus.

All apparatus repaired at the repair shop tried out

by the auto tester before return to quarters.

Pumping engines used on several occasions to pump out cellars.

Three thousand and fifty-seven emergency calls responded to by the motor squad. These calls consisted of making minor repairs on apparatus in quarters, and on the street, towing disabled apparatus, responding to multiple alarms of fire, etc.

Repairs on Motor					ARAT	us –	– Sн	OΡ	MECHANICS.		
Number of j	obs										4,129
Cost .											\$53,681

#### 

#### Schools.

# Chauffeur School.

This school was in operation from May to October, and during this period 186 officers and men received instructions in the care, mechanism and operation of motor vehicles. After the course of instructions at the school these men were examined by the Engineer of Motor Apparatus for certification as operators.

Those not already holding state licenses received examination by the State Registry of Motor Vehicle

Examiners.

## Motor Pump School.

The Motor Pump School began operations in May and continued to the latter part of October. During this time 112 men received instructions in the care and operation of motor pumping engines. As each class completed its course of instructions, the men attending were examined by the Engineer of Motor Apparatus to determine their fitness for certification as motor pump operators.

## Steam Engineer School.

One class of 7 men attended this school during the past year. These men received thorough instructions in the care, mechanism and operations of steam fire engines.

In addition at this school several members of the department received instructions in the operation of the

various type hydrants used by the department.

## Motorless Vehicles.

Repairs of all kinds were made on our horse-drawn vehicles at the Bureau shop, and a few jobs were given to outside firms on account of not having proper facilities at the shop to do the work.

Repairs a								319
Cost .		taida	£				٠	\$3,940
Repairs b Cost .	_	ısıae						\$123

Thirteen discarded horse-drawn hose wagons were

converted into pungs, at \$210.

By placing the bodies of these wagons on runners it provided practical fire-fighting units for emergency during winter seasons. These wagons were previously sold off at a relatively low price.

#### MARINE SERVICE.

Fireboats inspected and over hauled to conform with the United States Marine Laws.

Repair	s by	out	side	firms				18
Cost								\$6,028

Submarine chaser loaned by United States Navy was returned.

#### HIGH PRESSURE.

To conform with the State Laws three civilian engineers were assigned to High Pressure Station No. 1.

Eight gate wrenches for emergency in case of break in high pressure mains were received from the Public Works Department and distributed to Engine Companies 4, 6, 7, 8, 15, 25, 26 and 39.

Piezometer gauges were distributed to the following companies during the year: Engines 3, 9, 12, 13, 14, 15,

17, 21, 23, 24, 27, 31, 33, 36, 38, 43, 44 and 47.

## DEPARTMENT BUILDINGS.

The greater part of the repair work necessary for the upkeep of department buildings was performed by our outside mechanics (namely) plumbers, painters, steamfitters, carpenters, tinsmiths and masons.

Numb	er of	f rep	airs					1,389
Cost								\$37,469

Several repairs were made by the members of companies, stock furnished by the department.

# 

Some major repairs and other work was performed by outside concerns, vis., thoroughly overhauling and bracing fire escape on Headquarters Building, paving Drill School yard, roofs, roof garden awnings, window awnings, etc.

Number of jobs									
Cost									
FURNITURE.									
Several pieces of furniture were repaired at the Bureau shop including chairs, tables, desks, chiffoniers, etc.									
shop including chans, tables, desks, chinomers, etc.									
Number of repairs									
Cost									
Some repairs were made in quarters by members of the department, stock furnished.									
Cost of stock supplied									
Furnishings.									

#### r urnishings.

The following articles were purchased and distributed during the year.

27 rugs.
90 dozen pillow slips.
500 roller towels.
177 chairs.
4 tables.
115 dozen sheets.

100 blankets.

7 dozen hand towels.

37 bedsteads.

4 desks.

5 chiffoniers.

Several articles were repaired and supplied by outside firms, viz., pool tables, mattresses, pillows, curtains, etc.

Cost of repairs and furnishings . . . . . \$4,239

## BUREAU REPAIR SHOP.

Three employees were added to personnel, 2 painters, 1 laborer.

Battery testing instrument board installed. Battery load testing instrument installed.

Turn auto machine installed. This machine facilitates turning small motor vehicles in desired positions for inspection and repairs.

Battery and magneto room was segregated. Pressure pump for testing hose repaired.

No. 1 generator engine given thorough overhauling.

#### Hose.

Purchased.		Condemned.					
Leading cotton hose . Chemical hose Rubber deck hose	16,500 500 50 17,050	Leading cotton hose Leading rubber hose Chemical hose 3-inch flexible suction hose 4-inch rubber suction hose Deluge hose Total	Feet. 11,450 950 800 150 50 25 13,425				

# Amount of hose in use and in stock February 1, 1923.

$In \ Use.$		In Stock.	
Leading cotton hose Leading rubber hose Chemical hose Deck hose 3-inch flexible suction hose, 4-inch rubber suction hose, 3\frac{1}{2}-inch deluge hose Total	Feet. 130,416 900 19,200 900 625 1,218 675 153,934	Leading cotton hose Chemical hose 3-inch flexible suction hose, 4-inch rubber suction hose, 2½-inch rubber suction hose, Total	9,700 350 50 204 40 10,344

#### CLOTHING.

810 pairs of trousers received and distributed.

202 pairs of trousers repaired.
31 pairs of trousers reissued.

316 sack coats received and distributed.

54 sack coats repaired.

30 sack coats reissued.

203 overcoats received and distributed.

26 overcoats repaired. 3 overcoats reissued.

154 rubber coats received and distributed.

37 rubber coats repaired. 24 rubber coats reissued.

271 caps received, and distributed.

13 caps reissued.

100 fire hats received and distributed.

332 fire hats repaired.

Nine hundred and one overcoats cleansed, pressed, repaired and placed in storage during the summer.

#### Conclusion.

Due to the increased amount of repair work by the Bureau our repair shop has become very much inade-

quate for our needs, and I would urge that provisions

be made for erection of a larger building.

Several of our gasolene storage tanks are too small for our requirements, and as all these tanks are now considered gasolene stations for the entire department particularly on multiple alarms, I would recommend that they be replaced by tanks of 500 gallon capacity.

Consideration should be given to the installing of

motor fuel wagons in Districts 1 and 2.

Respectfully submitted,

WILLIAM H. McCorkle, District Chief.

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#### REPORT OF MEDICAL EXAMINER.

Boston, February 1, 1923.

From: THE MEDICAL EXAMINER.

To: THE FIRE COMMISSIONER.

SUBJECT: ANNUAL REPORT.

Number of cases of illness . . . .

I respectfully submit the following report for the year ending January 31, 1923:

Number of cases of injury	1,004
Number injured but remained on duty	988
2 1 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Examinations.	
Inspections at office headquarters recorded	1,272
	,
For appointment as provisional fireman (civil service).	19
For appointment of men on probation	11
	2
For reinstatement	
At engine houses of firemen, pulmotors and medicine.	
chests, and visits at homes of firemen and at	
	250
hospitals	350

The past winter having been very severe, with limited supply of coal, rendering fire duty extra hazardous and unusual suffering from cold, in my opinion, accounts for the increase in number of sick and injured over the

previous year.

It has been my good fortune to be granted permission by our commissioner and his Honor the Mayor to become a member and attend the first meeting of the "National Association of Police and Fire Surgeons and Medical Directors of Civil Service Commissions" organized at Philadelphia, November 20, 1922. At the annual meeting, the reading of papers, the interchange of thought relative to improvement in medical routine in connection with department work has been a great help for efficient medical service. Universal standardization of physical and mental requirements for appointment to the police and fire service is to be worked out in the future. The officers and men have many times during the past year given "first aid" service to citizens

as well as firemen, thus rendering an efficient and praiseworthy public service. It is commendable and noteworthy, showing the faithful spirit of officers and men, that out of 1,334 cases of injury on file, 988 men remained on duty and had their injuries treated in quarters.

#### DEATHS.

John J. Connorton, February 16, 1922, Engine Company 22, cerebral hemorrhage.

William J. Hennessey, March 14, 1922, Engine Company 2,

lobar pneumonia.

Christopher J. Melia, April 15, 1922, Engine Company 53, tubercular meningitis following pulmonary tuberculosis.

Daniel J. Quinn, April 30, 1922, Headquarters, pernicious

anæmia.

Lawrence H. Donahue, September 9, 1922, Ladder 10, sarcoma.

William C. Swan, September 28, 1922, Ladder 15, shock following crushing of leg.

Patrick J. Norton, October 14, 1922, Engine Company 18,

cancer of rectum.

Alexander F. Smith, December 10, 1922, Engine Company 36, chronic nephritis.

# Respectfully submitted,

WILLIAM J. McNally, M. D., Medical Examiner.

### REPORT OF WIRE DIVISION.

Boston, February 1, 1923.

FROM: SUPERINTENDENT, WIRE DIVISION.

To: The Fire Commissioner.
Subject: Annual Report.

I herewith submit annual report of the Wire Division

of the Fire Department for the year 1922-23.

The underground district for 1923 has been prescribed and advertised in accordance with the law and is as follows:

#### BRIGHTON.

Washington street, from Cambridge street to Commonwealth avenue.

#### CHARLESTOWN.

Alford street, from Main street to the drawbridge; Medford street, from Chelsea street to Cook street.

#### DORCHESTER.

Alban street, from Welles avenue to Ashmont street; Talbot avenue, from Washington street to Bernard street; Quincy street, from Columbia road to Blue Hill avenue; Adams street, from King square to Minot street; Washington street, from Ashmont street, a distance of 1,970 feet to a point within 530 feet of Codman street.

#### SOUTH BOSTON.

Macallen street, from Dorchester avenue to Foundry street, making a total distance of four miles as provided by law.

The following data gives the details of the work done by this division:

During the year there were forty-nine fires and one manhole explosion due to electrical causes. The total loss for forty-seven fires (two fire losses not being adjusted) was \$24,803.50; three fires causing a loss of \$17,808.04, leaving \$7,995.46 for the balance. These fires, etc., have received the attention of this division.

All electrical construction which comes under the supervision of this division has been duly inspected.

No violation of the law relating to electrical construction has necessitated court action during the year.

The total income for the year was \$55,843.63, which

is the largest amount ever received for a like period.

While more attention has been given to inspection of old work than for a number of years, it is our intention to increase the amount of inspection of this kind of work, provided the pressure of new work will not prevent.

The work of the division shows a marked increase over previous years. There was a larger amount of underground construction, while the work of installing interior wiring and electrical apparatus shows a material increase.

The number of permits issued for interior wiring was

17,378.

The public service corporations and electrical contractors and others have assisted us by their co-operation.

It is a pleasure to report that during the year there have been no fires due to wiring or apparatus approved by this division.

#### EXTERIOR DIVISION.

The underground district for the year 1922, as prescribed under authority of chapter 196 of the Acts of 1921, comprised the following streets:

#### Brighton.

Washington street, from Commonwealth avenue to Corey road. Corey road, from Washington street to the Brookline line. Wallingford road, from Chestnut Hill avenue to Commonwealth avenue.

#### East Boston.

Border street, from the North Ferry to Condor street. Sumner street, from Maverick square to Border street.

#### ROXBURY.

Zeigler street, from Warren street to Dearborn street.

#### DORCHESTER.

Dorchester avenue, from Peabody square to Pierce square. Fuller street, from Dorchester avenue to Washington street. West Cottage street, from Dudley street to Blue Hill avenue.

#### BACK BAY.

Brookline avenue, from Commonwealth avenue a distance of 1,890 feet to a point 150 feet south of the south line of Fullerton street.

Making a total distance of 4 miles as provided by law.

In these prescribed streets from which poles and overhead wires were to be removed, there were standing on February 1, 1922, a total of two hundred fourteen (214) poles (not including the trolley poles of the Boston Elevated Railway Company, which are exempt) owned by the Edison Electric Illuminating Company, New England Telephone and Telegraph Company and Postal Telegraph Cable Company, supporting a total of one million (1,000,000) feet of overhead wires, or a little more than one hundred eighty-nine (189) miles owned by the Edison Electric Illuminating Company, New England Telephone and Telegraph Company, Boston Elevated Railway Company, Postal Telegraph Cable Company, Western Union Telegraph Company, American District Telegraph Company, Boston Fire Department (Fire Alarm Branch) and Boston Police Depart-

ment (Police Signal Service).

In the selection of new pole locations our engineers have accompanied the engineers of the various companies for the purpose of passing on such locations. All carrying poles standing in the streets are stencilled by this department for purposes of identification, and are plotted in atlases on file in our office. All carrying poles standing in the streets are inspected and tested yearly by the inspectors of this division and at the same time a general inspection is made of all overhead construction. This work is in addition to the regular inspection work necessary on account of new construction. Poles found to be leaning or in process of decay are reported to the companies owning same and where conditions warrant it, poles are condemned. During the past year the inspectors of this division reported one hundred forty-four (144) poles decayed at base and fifty-three (53) poles leaning, or a total of one hundred ninety-seven (197) poles which were replaced by new poles or reset by the various companies at the request of this department. Forty-eight (48) abandoned poles were reported by our inspectors and were removed by the various companies at our request.

The following table shows the overhead for the year from February 1, 1922, to January 31, 1923, inclusive:

Number of new poles set in new locations	744
Number of poles replaced, reset or straightened.	449
Number of poles removed	492
Number of poles now standing in the public streets,	15,872
Number of defects reported	3,673

Number of defects corrected	3,452
(Other defects in process of correction.)	
Number of notices of overhead construction .	23,966
Number of overhead inspections	41,909
Number of overhead reports	23,059
Amount of overhead wires removed by owners (in	,
feet)	2,053,358

#### Underground Construction.

The ducts used this year for the underground conduits of the drawing-in system are of the following type:

- 1. Vitrified clay (laid in concrete).
- 2. Fiber (laid in concrete).
- 3. Iron.
- 4. Wood.

In side or residential streets a considerable amount of special underground construction for electric light and power purposes of a type known as the "Split Fiber Solid System" has been installed during the year.

The electrical approvals for underground electrical construction numbered three thousand five hundred

forty-nine (3,549).

Number of inspections of underground electrical construction, nine thousand four hundred sixty-six (9,466).

Number of reports of underground electrical construction, three thousand one hundred eighty-nine (3,189).

## Character of Cable Used by the Various Companies.

Company,	Kind of Insulation.	Size.
Boston Elevated Railway Company	Rubber	500,000, 1,000,000 and 2,- 000,000 C. M.
Charlestown Gas and Electric Com- pany.	Varnished cambric, rubber and paper.	Nos. 2, 4, 6 and 1-0.
Edison Electric Illuminating Com- pany.	Rubber and paper	Nos. 8 to 1,000,000 C. M.
Fire Alarm Branch (B. F. D.)	Rubber	4, 6, 10, 19, 37 and 61 conductor.
New England Telephone and Tele- graph Company.	Paper, silk and cotton.	2 to 1,212 pair.
Police Signal Service (B. P. D.)	Rubber	7 conductor.
Postal Telegraph Cable Company,	Rubber	2 conductor.
Schoolhouse Commission (City of	Rubber	4 conductor.
Boston), Western Union Telegraph Com- pany.	Rubber and paper	10 to 125 pair.

Table Showing Underground Work for the Year 1922.

Company.	Feet of Conduit.	Feet of Duct.	Feet of Cable.	Number of Manholes.	Number of Services.
Boston Elevated Railway Company,	8,129	68,342	17,754	25	12
Boston Low Tension Wire Association.		515			8
Charlestown Gas and Electric Company.	715	1,640	38,970		4
Edison Electric Illuminating Company.	91,185	495,173	1,144,077	254	1,605
Fire Alarm Branch (B. F. D.)	1,450	3,823	27,051	4	23
New England Telephone and Telegraph Company.	24,091	154,528	263,889	67	180
Police Signal Service (B. P. D.)		558	1,650		8
Postal Telegraph Cable Company		265	3,000		2
Schoolhouse Commission (City of Boston).		98	1,160		2
Western Union Telegraph Company,	6,944	21,059	14,778	18	9
Totals	132,514	746,001	1,512,329	368	1,853

Note.— "Split Fiber Solid Main System" of the Edison Electric Illuminating Company is included in the above figures comprising 23,172 feet of conduit and 45,606 feet of duct. No additions made to the old three-wire solid tube system.

Table Showing the Amount and Distribution of Boston's Electrical Power January 31, 1923.

Company,	Total Rated Horse Power of Boilers.	Total Rated Horse Power of Engines.	Capacity of Incandescent Lamps in Kilowatts.	Capacity of Arc Lamps in Kilowatts.	Kilowatts of Motors.	Kilowatts, Mixed Loads.	Number of Stations.			
Boston Elevated Railway Company	43,772	207,970	3,476	5	347,630	78,775	17			
Edison Electric Illuminating Company,.	48,592	275,400	101,638	2,946	91,741	73,712	45			
Charlestown Gas and Electric Company,			*	163	7,159	*	1			
Block Plant Electric Company	400	325	215		40	260	1			
Quaker Building Company	620	400	125		106		1			
Sudbury Building Plant	200	150	25		25		1			
Hanover Street Trust	500	363	209	33	153	395	1			
Totals	94,084	484,608	105,688	3,147	446,854	153,142	67			

<sup>\*</sup> Unknown.

#### INTERIOR DIVISION.

As provided by law, there have been eleven hundred thirty-seven (1,137) inspections made of theaters, places of amusement and public halls. Where defects are found the parties interested are notified. When not corrected within a reasonable time the company supplying current is notified to discontinue same.

Forty-nine fires and five accidents to persons (two of which were fatal) have been investigated as per the

following table:

Fires in interior of build	lines				. 30	a
					9	U
Fires on poles						1
						1
Miscellaneous, exterior					13	3
						_
Notices of new work re-					17,37	
Number of permits to t			t.		12,91	
Number of incandescent					1,528,939	
Number of motors inspe	ected			• .	11,40′	7
Number of buildings in						
pletely examined .					1,40	
Number of inspections r	made				38,68	3

Defective work reported by the inspectors of the Interior Division has been corrected or is in process of correction.

# LIST OF WIRE DIVISION EMPLOYEES, JANUARY 31, 1923.

							Salary Per Annum.
1	Superintenden	t					\$3,000
1	Chief Inspecto	r					2,500
3	Inspectors						2,000
8	Inspectors			•			1,900
8	Inspectors						1,800
6	Inspectors						1,700
4	Inspectors						1,600
2	Inspectors						1,500
1	Inspector .						1,400
							2,000
1	Chief Clerk						2,000
	Assistant Chie						1,900
	Clerk and Ster						1,600
1	Clerk .						1,240
1	Clerk .						1,400
3	Stenographers						1,300
	Chauffeur						1,400
1	Stenciller		. 6				1,400

STATEMENT OF APPROPRIATION AND EXPENDITURES OF THE WIRE DIVISION FROM FEBRUARY 1, 1922, TO JANUARY 31, 1923, INCLUSIVE.

Approp	oriation			٠			\$88,827 36
	E	XPE	NDIT	URE	es.		
A-1.	Employees .				\$76,000	42	
F-7.	Pension roll .				612		
B-1.	Printing and bind	ling			17	70	
B-2.	Postage .				200	00	
B-3.	Advertising .				107	40	
B-4.					2,487	66	
B-12.	Premium on bone				6	00	
B-13.	Telephones .				347	04	
B-35.	Fees				<b>2</b>	00	
B-37.	TO I				2	15	
B-39.	Repairs, etc.				27	40	
C-3.	Electrical instrum				114	32	
C-4.	Autos, etc.				3,304	25	
C-13.				۰.	28	30	
D-1.	Office forms, etc.				1,865	65	
	Gasolene, etc.				344		
D-16.	Photo material				1	85	
E-10.	Batteries, etc.				10	08	
E-13.	. '	nd p	aint		50	80	
Tra	otal expenditures				\$85,537	27	
	lance in treasury	•	•		3,290		
Dε	nance in treasury	•	•	٠.			\$88,827 36

### LIST OF PROPERTY.—WIRE DIVISION.

- 1 1,500-volt Weston Direct Current Voltmeter.
- 5 300-volt Weston Direct Current Voltmeters.
- 2 300-volt Weston Alternating Current and Direct Current Voltmeters.
- 1 15-volt Weston Direct Current Voltmeter.
- 2 300-volt Weston Direct Current Double Reading Voltmeter.
- 1 120-volt Weston Direct Current Miniature Type Voltmeter.
- 1 150-volt Weston Direct Current Miniature Type Voltmeter.
- 1 500-volt Weston Direct Current Ammeter.
- 1 200-volt Weston Alternating Current Ammeter.
- 1 50-volt Weston Direct Current Ammeter.
- 1 15-volt Weston Alternating Current Ammeter.
- 1 1,500-volt Milamperes Weston Direct Current Mil-ammeter.
- 6 Bichloride of silver batteries, each 60 cells.
- 1 Queen testing set.
- 1 Touring car.
- 1 Runabout.
- 1 Ford truck.
- 2 Robes.1 Blanket.
- 2 Cameras, complete.

Miscellaneous tools used in connection with overhead construction

Draughting instruments.

Respectfully,

Walter J. Burke, Superintendent, Wire Division.

### THE DEPARTMENT ORGANIZATION.

Commissioner, Theodore A. Glynn. Chief Clerk, Benjamin F. Underhill.

Chief of Department, John O. Taber.

Captain, WILLIAM H. McCorkle, in charge of Bureau of Supplies and Repairs.

Superintendent of Engines and Boilers, Eugene M. Byington. Superintendent of Fire Alarms, George L. Fickett.

Superintendent of Wire Division, Walter J. Burke.

Chief Operator and Assistant Superintendent of Fire Alarms, RICHARD DONAHUE.

Chief Clerk, Wire Division, Frank H. RICE.

Medical Examiner, WILLIAM J. McNally.

#### CLERKS.

### Fire Department.

James P. Maloney, Assistant Chief Clerk and Supervisor of Pay Accounts; Edward L. Tierney, Chief of License Division— Bureau of Fire Prevention; George F. Murphy, Herbert J. Hickey, John J. Coholan, William J. Hurley, Nathan Cohen, Frank M. Fogarty, Thomas J. Murphy, William J. O'Donnell, Thomas W. O'Connell, Warren F. Fenlon.

#### Wire Division.

William McSweeney, Charles S. Carroll, Martin P. Cummings, Selina A. O'Brien, Mary E. Fleming, May D. Marsh.

### HEADQUARTERS.

											Per Annum.
1	Commissi	oner	•								\$7,500
	Chief cler	k									2,500
1	Assistant	chie	f cler	k an	d supe	ervis	or p	ay ac	cour	its,	2,500
	Medical e				. 1						2,100
1	Secretary	and	ster	ogra	pher						2,000
	Clerk										2,300
1	Clerk .										1,500
1	Clerk .										1,300
											1,000
1	Assistant	engi	neer	(me	ssenge	er)*					1,800
	Hosemen										1,800
		,	,								Per Week.
1	Janitress										20 00
_	9	·									

		FIRE	Pre	VENT:	ION	Bur	REAU.			
	NI	, .								Per Annum.
1 (	Chief Fire Pr	eventi	on							\$2,500
1 (	Clerk Clerk	•		•	•					1,700 1,300
1 (	Clerk	•	•	•				•		1,300
1 (	Clerk Constable .			•		•	•	•	٠	1,000
1 (	Constable.	•	•	•	•	•	•	•	٠	1,400
5										
9		Fire	E-FIG	HTING	g Bi	RANC	CH.			
										Per Annum.
1	Chief of De	partme	$_{ m ent}$							\$5,000
4	Deputy chie	efs			•					4,000
15	District chie	efs								3,500
63	Captains .							•-		2,500
98	Lieutenants	c /1:	;		•	•	•		•	2,300
1	Captains Lieutenants Aide-to-Chic Aide-to-Con Engineers (1	et (Hen	tena	$\frac{\text{nt}}{2}$ .	• , \			•	•	2,300
1	Aide-to-Con	nmissio	ner	(priva	ate)		•	•		1,000
3	Engineers (1	marine	) .	•	•	•	•		٠	2,000
47	Engineers	·		•	•		•	•	•	1,900
47	Assistant En	ngineei	rs	•	•		:		•	1,800
2	Assistant en	igineer	S	•	•		•		٠	1,600
894	Privates:									@1 000
	764	٠	•	•	•	•	•	•	OP 18	\$1,800 .700-\$1,800
	44		•	•	•	•	•	•	Φ1,	600 @1.700
	26	•	•	•		•	•	•	<b>Ф1</b> ,	600-\$1,700 500-\$1,600
	$\begin{array}{c} 43 \\ 17 \end{array}$	•	•					٠	ΦI,	400 @1 500
	17	•				•	•	•	Ф1,	400-\$1,500
1,17	<u></u>									
1,11		UREAU	SHP	PLIES	S AN	n R	EPAT	RS.		Per Annum.
1	Captain in o		201	1 212	, ,,,,,,,					\$2,500
1	Superintend	lant or	arina	e and	hoi	lore	•	•	•	3,500
. 1	Supermient	motor	anne	rotu	י טטו	1618		٠		2,700
1	Shop forem	an	арра	i a u	3	•	•		•	2,000
1	Supervisor, Shop forems Lieutenant,	forem	an he	NSP 91	nd h	arne	ee eh	on	•	2,300
1	Auto engine	er (en	rinee	r)	14 11	armo	00 011	оþ		2,200
. 1	Auto engine Engineer an	d Arch	itect		•	•	•		•	2,200
i	Storekeener	(hoser	nan)				•	•	•	2,000
1	Storekeeper Master plur Master carp	nber (e	ngin	eer)	•		•	•	·	1,900
÷Î	Master carr	enter (	hose	man)	•					1.000
î	Master Pair	nter .								1 000
1	Master Pair Foreman au	to med	chani	c						1,800
1	Machinist (	engine	er)							1,900
13	Privates .									1,800
1	Private .									1,700
	Clerk in cha	arge								1,900
1										1,300
1		arge (h	osem	an)						1,800
7	Engineers	. '								1,900
7	Engineers (	High F	ressu	re Se	ervio	ee)				1,900
3	Assistant er	ngineer	s (Hi	gh P	ress	ure S	Servi	ee)		1,800

									Per Day.
3	High Pressure en	ngine	ers						\$7 00
	Firemen				•		•		5 50
		•	•	•	•	•	•	•	Per Week.
1	Engineer								\$40 00
1	Engineer.	•	•	•	•	•	•	•	*
_	T01 - 1								Per Day.
2	Plumbers .			•	•	•	•		\$5 40
1	Steamfitter .					•			5 00
1	Leading painter								5 25
9	Painters								5 00
2	Steamfitter Leading painter Painters Wheelwrights Leading machine								5 00
1	Leading machini	ist							5 00
4	Machinists .								5 00
7	Auto repairers								5 00
<b>2</b>	Battery and igni	tion	men						5 00
1	Machinists Auto repairers Battery and igni Auto repairer an Auto mechanic a	d tes	ster						5 00
1	Auto mechanic a	nd n	nachin	ist					5 00
1	Auto blacksmith Leading blacksm								5 00
1	Leading blacksm	ith							5 25
4	Blackmiths . Blacksmith's hel								5 00
5	Blacksmith's hel	pers							4 25
3	Carpenters . Hose and harnes	٠.							5 00
2	Hose and harnes	s rep	airers						5 00
1	Hose and harnes	s rep	airer						4 50
1	Hose and harnes Boiler repairer, i	ronw	orker	and	l stea	mfit	ter		5 00
1	Vulcanizer .								4 50
	Chauffeur								4 50
2	fra .								4 00
2	Laborerst								4 00
		•	•	•	•	•	·	•	1 00
109									
	T	·	A	- 10					
			ALARI						Per Annum.
1 S	uperintendent Assistant superint	٠.		٠.	. :				\$3,500
1 A	ssistant superint	ende	nt and	t ch	lef o	pera	tor		3,000 2,300
1 8	upervising opera Principal operator	tor							2,300
3 F	rincipal operator	'S .							2,300
3 (	perators								2,200
5 A	perators . Assistant operator	·s.							1,800
1 A	Assistant operator Cemporary assista	•							1,400
1 7	emporary assista	int o	perato	r					1,400
16									
	C	ONST	RUCTI	ON	Fore	CE.			
									Per Annum.
1 E	oreman								\$2,700
1 1	ssistant foreman	•	•		•	•	•	•	2 200
1 0	tockman .	•	•	•		•	٠	•	2,200 1,800
1 2	tockman .	•	•	•		•	•	•	1,000

	FIRE DEPARTMENT.	61
$\frac{2}{19}$	Machinist	Per Day. \$5 25 5 00 5 45 4 00
3	Hostlers (average)	Per Day. \$4 00

### CHIEF OF DEPARTMENT.

#### JOHN O. TABER.

Headquarters, Engine House 26-35, Mason Street.

The Chief is in charge of the fire protection of the city, which is divided into three divisions, each commanded by a deputy chief, which are subdivided into fifteen districts, each commanded by a district chief.

### Division 1.

Deputy Chief, Edward J. Shallow.

Headquarters, Ladder House 8, Fort Hill Square. This division comprises Districts 1, 2, 3, 4, 5.

#### District 1.

District Chief, Henry J. Power. Headquarters, Ladder House 2, Paris Street, East Boston.

Apparatus Located in the District.— Engines 5, 9, 11, 31 (fireboat), 40, 47 (fireboat), Ladders 2, 21, Chemical 7.

## District 2.

District Chief, John P. Murray.

Headquarters, Engine House 50, Winthrop Street, Charlestown.

Apparatus Located in the District.—Engines 27, 32, 36, 50, Ladders 9, 22.

## District 3.

District Chief, Cornelius J. O'Brien.

Headquarters, Ladder House 18, Pittsburgh Street.

Apparatus Located in the District.— Engines 25, 38, 39, 44 (fireboat), Ladders 8, 18, Water Tower 3.

### District 4.

District Chief, Charles A. Donohoe.

Headquarters, Engine House, 4 Bulfinch Street.

Apparatus Located in the District.— Engines 4, 6, 8, Ladders 1, 24, Water Tower 1.

#### District 5.

District Chief, Albert J. Caulfield.

Headquarters, Engine House 26–35, Mason Street.

Apparatus Located in the District.— Engines 7, 10, 26, 35, Ladder 17, Rescue 1.

#### Division 2.

Deputy Chief, HENRY A. Fox.

Headquarters, Engine House 22, Warren Avenue. This division comprises Districts 6, 7, 8, 11.

#### District 6.

District Chief, James J. Caine.

Headquarters, Engine House 1, Dorchester Street, South Boston.

Apparatus Located in the District.— Engines 1, 2, 15, 43, Ladders 5, 19, 20.

### District 7.

District Chief, Frank A. Sweeney.

Headquarters, Engine House 22, Warren Avenue.

Apparatus Located in the District.— Engines 3, 22, 33, Ladders 3, 13, 15, Water Tower 2.

#### District 8.

District Chief, Frank J. Sheeran.

Headquarters, Ladder House 12, Tremont Street.

Apparatus Located in the District.— Engines 13, 14, 37, Ladders 12, 26.

## District 11.

District Chief, James F. McMahon.

Headquarters, Engine House 41, Harvard Avenue, Brighton.

Apparatus Located in the District.— Engines 29, 34, 41, 51, Ladders 11, 14.

## Division 3.

Deputy Chief, Walter M. McLean.

Headquarters, Ladder House 23, Washington Street, Grove Hall.

This division comprises Districts 9, 10, 12, 13, 14, 15.

#### District 9.

District Chief, Joseph H. Kenney.

Headquarters, Engine House 12, Dudley Street.

Apparatus Located in the District.— Engines 12, 21, 23, 24, Ladder 4.

### District 10.

District Chief, Francis J. Jordan.

Headquarters, Engine House 18, Harvard Street, Dorchester.

Apparatus Located in the District.— Engines 17, 18, 52, Ladders 7, 29.

### District 12.

District Chief, John N. Lally.

Headquarters, Engine House 28, Centre Street, Jamaica Plain.

Apparatus Located in the District.— Engines 28, 42, Ladders 10, 23, 30.

#### District 13.

District Chief, MICHAEL J. KENNEDY.

Headquarters, Engine House 45, Corner Washington and Poplar Streets, Roslindale.

Apparatus Located in the District.— Engines 30, 45, 53, Ladders 16, 25.

### District 14.

District Chief, Allan J. Macdonald.

Headquarters, Engine House 46, Peabody Square, Dorchester.

Apparatus Located in the District.— Engines 16, 20, 46, Ladders 6, 27.

## District 15.

District Chief, JOSEPH A. DOLAN.

Headquarters, Engine House 48, Corner Harvard Avenue and Winthrop Street, Hyde Park.

Apparatus Located in the District.— Engines 19, 48, 49, Ladder 28.

# FIRE STATIONS.

## LOCATION.

Location.	Number of Feet in Lot.	Occupied by
Dorchester and Fourth streets	8,167	Engine 1 and Ladder 5.
Corner of O and Fourth streets	4,000	Engine 2.
Bristol street and Harrison avenue	4,000	Engine 3 and Ladder 3.
Bulfinch street	6,098	Engine 4, Chemical 1 and Tower 1
Marion street, East Boston	3,265	Engine 5.
Leverett street	2,269	Engine 6.
East street	1,893	Engine 7.
Salem street	2,568	Engine 8.
Paris street, East Boston	4,720	Engine 9 and Ladder 2.
River street	1,886	Engine 10.
Saratoga and Byron streets, East Boston,	10,000	Engine 11 and Ladder 21.
Dudley street	7,320	Engine 12.
Cabot street	4,832	Engine 13.
Centre street	5,713	Engine 14.
Dorchester avenue	2,803	Engine 15.
Corner River and Temple streets	12,736	Engine 16 and Ladder 6.
Meeting House Hill, Dorchester	9,450	Engine 17 and Ladder 7.
Harvard street, Dorchester	9,440	Engine 18.
Babson street, Dorchester	7,683	Engine 19.
Walnut street, Dorchester	9,000	Engine 20 and Ladder 27.
Columbia road, Dorchester	10,341	Engine 21.
Warren avenue	7,500	Engine 22 and Ladder 13.
Northampton street	3,445	Engine 23.
Corner Warren and Quincy streets	4,186	Engine 24.
Fort Hill square	4,175	Engine 25 and Ladder 8, Rescue 1
Mason street	5,623	Engines 26 and 35.
Elm street, Charlestown	2,600	Engine 27.
Centre street, Jamaica Plain	10,377	Engine 28 and Ladder 10.
Chestnut Hill avenue, Brighton	14,358	Engine 29 and Ladder 11.
Centre street, West Roxbury	12,251	Engine 30 and Ladder 25.
521 Commercial street, on land of Public Works Department.		

Fire Stations.—Concluded.

LOCATION.  Number of Feet in Lot.  Bunker Hill street, Charlestown	ler 15.
Corner Boylston and Hereford streets 5,646 Engine 33 and Ladd Western avenue, Brighton 4,637 Engine 34.  Monument street, Charlestown 5,668 Engine 36 and Ladd	ler 22.
Western avenue, Brighton	ler 22.
Monument street, Charlestown 5,668 Engine 36 and Ladd	
Orange I angreed and Brookling avenues 5 231 Frainc 27 and I add	ler 26.
Corner Longwood and Brookline avenues, 5,231 Engine 37 and Ladd	
Congress street	
Sumner street, East Boston	
Harvard avenue, near Cambridge street, 6,112 Engine 41 and Ladd Brighton.	ler 14.
Washington street, at Egleston square 3,848 Engine 42 and Ladd	ler 30.
Andrew square	ler 20.
Northern Avenue Bridge Engine 44, fireboat.	
Washington and Poplar streets, Roŝlindale. 14,729 Engine 45 and Ladd	er 16.
Dorchester avenue, Ashmont	
Adjoining South Ferry, East Boston 11,950 Engine 47, fireboat.	
Harvard avenue and Winthrop street, 9,450 Engine 48 and Ladd Hyde Park.	ler 28.
Church street	
Milton and Hamilton streets	
Winthrop and Soley streets 5,230 Engine 50.	
Oak square, Brighton	
Saratoga street, East Boston	
Corner Callender and Lyford streets 7,200   Chemical 11 and La	dder 29.
Corner Walk Hill and Wenham streets 11,253 Chemical 13.	
Friend street	
Dudley street	ical 10.
Main street, Charlestown	
Tremont street	
Harrison avenue. 2,134 Ladder 17.	
Pittsburgh street, South Boston 8,964 Ladder 18 and Towe	er 3.
Fourth street	
Washington street, Dorchester 6,875 Ladder 23 and Chem	nical 5.
North Grove street	

Headquarters Building, Bristol street, 15,679 feet of land.

Water Tower No. 2 is in Headquarters Building.

### OTHER BUILDINGS.

Bureau S. & R. 363 Albany street, 8,000 feet of land. Veterinary Hospital, Atkinson street, 64,442 feet of land.

Coal station, Main street, Charlestown, 2,430 feet of land.

Building No. 11 Wareham street, used by the Fire Alarm Branch as workshop and storeroom, 8,500 feet of land.

Building No. 618 Harrison avenue, used as a department garage and repair shop and a school for chauffeurs and officers, 3,816 feet of land.

# CANNEL COAL STATIONS.

# Division 1.

DISTRICT.	Location.	Capacity. (Tons.)	Wagon.
1	Engine 11	12	1
1	Engine 40	20	2
2	Engine 36	35	1
2	Ladder 9	35	2
3	Ladder 18	10	
3	Engine 38–39	10	*1
4	Ladder 24	16	2
5	Rescue 1	35	*1
Total			10

<sup>\*</sup> Motor.

# Division 2.

6	Engine 2	20	1
6	Fourth street	40	
7	Engine 33	25	1
8	Engine 13	40	1
8	Engine 14	10	1
8	Engine 37	20	1
11	Engine 29.	7	1
11	Engine 34	7	1
11	Engine 41	10	1
11	Engine 51	10	
Total			8

# CANNEL COAL STATIONS.

### Division 3.

District.	Location.	Capacity. (Tons.)	Wagon.
9	Engine 12	5	1
9	Engine 21	6	1
9	Engine 23	5	
9	Engine 24	7	
10	Engine 17	3	1
10	Engine 18	5	1 *
12	Engine 28.	20	1
13	Engine 30	9	1
13	Engine 45	9	1
14	Engine 16	5	1
14	Engine 20	7	1
14	Engine 46	4	
15	Engine 19	8	1
15	Engine 48.	10	1
Total	,		11

Coal stations at Sleeper street and Charles River avenue were abandoned at a saving in rental to the department.

# GASOLENE STATIONS.

# Division 1.

DISTRICTS.	Location.	Capacity (Gallons.)	Pump.
1	Engine 5.	280	1 gallon.
1	Engine 11	110	1 gallon.
2	Engine 36	280	1 gallon.
2*	Engine 50	280	1 gallon.
2	Ladder 9	220	1 quart.
3	Ladder 8	120	1 gallon.
3	Ladder 18	280	1 gallon.
3	Engine 39	280	1 gallon.
4	Engine 4	280	1 gallon.
4	Engine 6	280	1 gallon.
4	Engine 8	280	1 gallon.
4	Ladder 1	280	1 gallon.
5	Ladder 17	280	1 gallon.
5	Rescue 1	550	1 gallon.
5	Engine 10	220	1 quart.
5	Engine 26	280	1 gallon.

# GASOLENE STATIONS.

# Division 2.

Districts.	Location.	Capacity (Gallons.)	Pump.
6	Engine 1	280	1 gallon.
6	Engine 2	280	1 gallon.
6	Engine 15	280	1 gallon.
6	Engine 43	280	1 gallon.
7,	Engine 3	280	1 gallon.
7	Engine 22	280	1 gallon.
7	Engine 33	280	1 gallon.
7	Bristol street repair shop	550	1 gallon.
7	Wareham street garage	280	1 gallon.
8	Engine 13	550	1 gallon.
8	Engine 14	280	1 gallon.
8	Engine 37	120	1 gallon.
8	Ladder 12	280	1 gallon.
11	Engine 29	280	1 gallon.
11	Engine 34	280	1 gallon.
11	Engine 41.	280	1 gallon.
11	Engine 51	280	1 gallon.

# GASOLENE STATIONS.

### Division 3.

Districts.	Location.	Capacity (Gallons.)	Pump.
9	Engine 12	550	1 gallon.
9	Engine 21	280	1 gallon.
9	Engine 23	280	1 gallon.
9	Engine 24	550	1 gallon.
9	Ladder 4	120	1 gallon.
10	Engine 17	280	1 gallon.
10	Engine 18.	280	1 gallon.
10	Engine 52	220	1 quart.
12	Engine 28	280	1 gallon.
12	Engine 42	115	1 quart.
12	Ladder 23	220	1 quart.
13	Engine 30	280	1 gallon.
13	Engine 45	200	1 quart.
13	Engine 53	120	1 gallon.
14	Engine 20.	280	1 gallon.
14:	Engine 46	220	1 gallon.
14	Ladder 6	280	1 gallon.
15	Engine 19	280	1 gallon.
15	Engine 48	280	1 gallon.
15	Engine 49	280	1 gallon.

During the year all gasolene tanks were drained and cleared of slag and sediment.

# NGINES.

Weight. (Pounds.)	11,500	13,500	13,140	14,308	11,300	11,030	11,300	12,980	9,150	11,300	11,200	11,030	11,300
Size.	First.	Third.	Second.	Second.	First.	Second.	Second.	Second	Second.	Second.	First.	Second.	Second.
Stroke.	9	63	00	∞	9	9	9	00	00	9	9	9	9
Diameter of Pump.		:	44	4		:		44	41	:	:	:	:
Diameter of Cylinder,	53	£G 2G	9 <sup>8</sup> .2	12.	53	53	53	7,	7	53	53	52	53
Date,		:	:	:	:			:	1902	:			
Rebuilt by									American Fire Engine Company.				
Put in Service,	Dec. 19, 1921	June 29, 1917	June 16, 1917	June 16, 1917 1911	Jan., 1919	July 13, 1922	Aug. 10, 1922	July 5, 1917 May, 1911]	April, 1870	Sept. 3, 1920	July 3, 1914	July 19, 1922	Aug. 1, 1922
Built by	American LaFrance 1,000-gallon D	Seagrave triple combination pump, J. 750 gallons.	Christic Tractor	Christie Tractor	American LaFrance Company motor Japunper, 750 gallons.	American LaFrance 750-gallon pump, Ju	American LaFrance 1,000-gallon A. pump.	Christie Tractor   Ju   American-British Company   M	Amoskeag Manufacturing Company, A	American LaFrance 1,000-gallon Sepump.	American LaFrance triple pumper, Ju 750 gallons.	American LaFrance 750-gallon pump, Ju	American LaFrance 750-gallon pump, A
NUMBER.	: : :	2		4	5	9	7		6	10	t1	12	13

Engines.—Continued.

Weight, (Pounds.)	10,500	14,350	10,500	12,380	10,500	16,420	10,500	12,560	12,340	11,300	11,300
Size.	Second.	First.	Second.	Second.	Second.	First,	Second.	Second.	Second.	First.	Second.
Stroke,	9	∞	9		9	64	9	00	∞	9	9
Diameter of Pump.		ro	:	4.5	:	:	:	44 1-10	41 200	:	
Diameter of Cylinder,	53	00 110	7. 1/4	r- 10 	-62 -62	57 614	, 55 150	ioles L—	1	53	53
Date.		1919	:	1907		:	:	1907		:	
Built by		J. B. Filleull & Son		International Power Company				International Power Company			
Put in Service.	19, 1921	30, 1920 30, 1920	19, 1921	7, 1916	28, 1921	2, 1917	29, 1921	12, 1916 ., 1870	Sept. 15, 1917 Nov., 1896	, 1920	21, 1922
_ ω	Dec.	July July	Oct.	Jan.	Oet.	July	Oct.	Jan. Sept.,	Sept. Nov.,	May,	July
Built by	American LaFrance combination pump-hose car, 750 gallons.	Amoskeag Manufacturing Company, Christie Tractor	American LaFrance combination pump-hose car, 750 gallons.	Christie Tractor	American LaFrance combination pump-hose car, 750 gallons.	Seagrave Company, (triple combination pumper), 750 gallons.	American LaFrance combination pump-hose car, 750 gallons.	Christie Tractor	Christie Tractor	American LaFrance pumper	American LaFrance, 750-gallon July pump.
NUMBER.	14	15	16	17	18	19	20	21	22	23	24

	Christie Tractor	May	May 15, 1915	_		_		-	-		900
25	American LaFrance Company	Dec.,	1910			:	ה	ę,	0	r rst.	16,000
26	American LaFrance pumper	Dec.,	Dec., 10, 1920			:	53	:	9	First.	11,300
27	Metropolitan Fire Engine Company,	May,	1920		American Fire Engine	1892	œ	44	00	Second.	9,118
28	American LaFrance pumper	April	April 13, 1920	:		:	53	:	9	Second.	10,500
29	International Power Company,	Dec., .	11911	Department shops	it shops	:	7 88	41	œ	Second.	9,250
30	American LaFrance combination pump-hose car, 750 gallons.	Oct.	18, 1921			:	55	:	9	Second.	10,500
31	G. F. Blake Manufacturing Company.		1914			:	17	10	=	1 pump. 3,000 gallons.	104 tons.
32	Amoskeag Manufacturing Company, June,	June,	1907			:	7.88	44	œ	Second.	9,100
33	Christie Tractor, new	April Feb.,	April 11, 1921 Feb., 1909			:	00 ∺e4	5.	× ×	First.	14,240
34	Amoskeag Manufacturing Company,	Dec.,	.1869		American-British Company	1904	72/00	44	00	Second.	8,300
35	American LaFrance pumper	Dec.	10, 1920			:	53	:	9	Second.	10,500
36	Christie TractorInternational Power Company	Aug.	13, 1917 1909			1917		5	œ	First.	13,910
37	American LaFrance pumper	Oct.	18, 1920		-	:	53		9	Second.	10,500
38	Manchester Locomotive Works (self-propeller).	June,	1897	J. B. Filleull & Son	ıll & Son	1917	₹6	5	œ	Double extra first. 18,170	18,170
30	Christie Tractor	May	May 10, 1917	 	American-British Company	1915	<del>1</del> 60		∞	First.	14,300
	Manchester Locomotive Works	June,	1901				•				
***************************************	American Locomotive Company	Jan.,	1906			:	8	ĸ	oo.	First.	10,350
41	American LaFrance pumper	Jan.	26, 1921				53		9	Second.	10,500

Engines.— Concluded.

Weight. (Pounds.)	13,000	11,300	178 tons.	11,300	10,500	179 tons.	12,100	12,000	11,500	12,000	10,500	16,420
Size.	Second.	Second.	$\left\{\begin{array}{c} 2 \text{ sets of pumps,} \\ 6,000 \text{ gallons.} \end{array}\right.$	Second.	Second.	2 sets of pumps, 6,000 gallons.	Second.	First.	First.	First.	Second.	Second.
Зұтоке.	œ	9	11	9	9	П	00	9	9	9	9	6
Diameter of Pump.	4, 10/10	:	) 10		:	) 10	44	:	:	:	:	:
Diameter of Cylinder,	1~ view	55	124 H. P. 18 L. P.	53	53	12 H. P. 22 L. P.	-7	53	54	52	53	55
Date.	:				:		:	:				
Rebuit by												
Put in Service.	Sept. 17, 1920	m. 8, 1923	Aug., 1895	m. 13, 1923	Oct. 25, 1920	Aug., 1909	Oct. 25, 1920 1920	ug. 9, 1922	1919	July 12, 1920	Dec. 19, 1921	Aug. 12, 1916
Built by	Christic Tractor  Seq	American LaFrance Company, 750- Jan. gallon pump.	American Fire Engine Company	American LaFrance Company, 750- Jan. gallon pump.	American LaFrance pumper Oc	G. F. Blake Manufacturing Company.	Christie Tractor	American LaFrance triple combina- Aug.	American LaFrance pumper	American LaFrance Company. (Triple combination pumper.)	American LaFrance Company, 750- Degallon pumper.	Seagrave pumper triple combination, Au 750 gallons.
NUMBER.	42	43	44	45	46	47		49	50	51	52	53

n Reserve.

Weight. (Pounds.)	14,240	13,150	12,400	12,980	11,200	11,200	11,030	10,500
Size.	First.	Second.	Second.	Second.	First.	First.	Second.	
Stroke.	oo.	×	∞ o	œ	9	9	9	9
Diameter of Pump.	5	41	44	44.00	:			:
Diameter of Cylinder.	8	-1 -1	2 site	osko ~1	53	53	5}	53
Date.	1916			1004			:	
Rebuilt by	Manchester Locomotive Works			American Locomotive Company,				
Put in Scrvice.	July, 1903	$\{ \frac{\text{July 28, 1915}}{\text{Feb., 1909}} \}$	Feb., 1909	(Dec. 20, 1915) [Nov., 1867]	July 3, 1914	Aug. 2, 1914	Sept. 12, 1922	1920
Built by.	Christie Tractor. (American Locomotive Company.)	Christie Tractor. (American International Power Company.)	Christie Tractor, (International Power Company.	Christie Tractor, Amoskeag Manu- (Dec. 20, facturing Company.	American LaFrance triple combina- July 3, tion.	American LaFrance triple combination.	American LaFrance 750 gallon pump,	American LaFrance triple combination.
NUMBER.	113-T	107-T	105-T	108-T	100-P	101-P	152-P	137-P

HORSE-DRAWN ENGINES (IN RESERVE).

Weight.	8,500	10,000	8,500	8,415	000'6	9,150	8,000	000'6	006'6	9,150
Size.	Third.	First.	Third.	Second.	Second.	Second.	Third.	First.	First.	Second.
Stroke.	- 00	00	8	· •	00	9	∞	∞	œ	∞
Diameter of Pump.	44	53	4,4	44	44	5	4.4	ī	53	43
Diameter of Cylinder.	68	6	19	-1 24 24 24 24 24 24 24 24 24 24 24 24 24	<b>∞</b>	83	19	00	6	1
Put in Service.	1906	1907	1890	1867	1890	0681	1905	1907	1893	1890
Built by	Amoskeag	Clapp & Jones	Amoskeag	Amoskeag	Metropolitan	Metropolitan	Amoskeag	Amoskeag	Metropolitan	Selsby
Number.	619	2,367.	721	252	964	1,836	534	808	2,163.	963

# HOSE WAGONS (IN RESERVE).

Six (6) horse-drawn. Two (2) Seagrave combination hose and chemical (motor). Two (2) American LaFrance combination hose and chemical (motor). One (1) American LaFrance straight hose car (motor).

# LADDER TRUCKS.

ght. ids.)	23,030	10,800	9,420	21,040	25,130	13,400	12,000	20,000	10,040	10,000	10,050	26,000	20,000	20,000	20,000
Weight. (Pounds.)															
Number of Ladders.	Aerial.	15	12	Aerial.	Aerial.	<b>x</b>	6	Aerial.	17	11	10	Aerial.	Aerial.	Aerial.	Aerial.
Feet of Ladders.	354	440	381	354	309	207	254	394	460	302	281	335	294	346	352
Rebuilt by	Motor driven		Department Repair Shops	Motor driven	Motor driven		Motor driven	Motor driven		Motor driven	Motor driven	Motor driven			
Put in Service.	May 27, 1922	1899	June 2, 1886	Sept. 28, 1914	June 20, 1917	March 2, 1917 Aug., 1905	Dec. 9, 1914	Oct. 31, 1921	1884	Oct., 1920	Dec. 31, 1912	Nov. 8, 1919	Oet. 1, 1919	May, 1919	an. 11, 1920
Built by	American LaFrance, Type 17, 4-wheel tractor.	Abbott-Downing Company	Abbott-Downing Company.	American I aFrance Company (85-foot) Type 25 S	Seagrave Company (75-foot)	Christic Tractor C. N. Perkins & Co.	Robinson Fire Apparatus Manufacturing Company.	Scagrave Company (85-foot)	Abbott-Downing Company	American LaFrance Company	American LaFrance. (City service truck)	American LaFrance Company (75-foot)	American LaFrance Company (85-foot), Type 31	American LaFrance Company (85-foot), Type 31	American LaFrance Company (85-foot), Type 31 Jan.
. Number.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Ladder Trucks. -- Concluded.

a.)	13,440	17,100	17,025	6,937	13,100	11,500	13,500	7,300	7,100	13,440	6,435	8,000	10,000	10,780	8,900
Weight. (Pounds.)	13	17.	17,	9	13	11	133	7	7	13	· •	ος Σ	10,	10	ού 
Number of Ladders.	10	Aerial.	Aerial.	∞	10	6	∞	11	6	∞	-1	6	10	=======================================	10
Feet of Ladders.	. 268	323	340	172	247	243	209	268	228	177	213	261	272	274	257
Rebuilt by						Motor driven							Motor driven	Motor driven	Motor driven
Put in Service.	Dec. 21, 1915 Sept., 1888	July 27, 1915 June, 1911	May 21, 1915 April, 1910	Jan., 1898	Oct. 27, 1915 Dec. 30, 1902	Dec. 10, 1913	June 11, 1917 Jan., 1898	Dec., 1910	Oct., 1901	April 24, 1917 April 25, 1900	Aug. 10, 1922 1908	Nov., 1901	Nov., 1920	May 5, 1913	Jan. 23, 1913
Built by	Christie Tractor   Christie Tractor   Irice Department Repair Shop   State   S			ing Company	Christie Tractor  Charles N. Perkins Company	American LaFrance Company, Type 14	Christie Tractor.	American LaFrance Company	Charles T. Holloway	Christie Tractor    Charles T. Holloway	Christie Tractor    Charles N. Perkins	American LaFrance	American LaFrance Company, Type 14	American LaFrance Company, Type 14	American LaFrance Company, Type 14
NUMBER.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

# In Reserve.

NUMBER.	Built by	Date.	Weight. (Pounds.)
209-T	(Christic Tractor. (85 foot aerial)	8161	17,800
220-T	(Christic Tractor (American LaFrance. (85-foot aerial)	6161	18,000
223-T	Christor Tractor.   American LaFrance, (85-foot aerial).	1917	17,660
213-T.	Christie Tractor.   Charles T. Holloway.	1898	12,050
216-T	Christie Tractor. Hunneman & Co	1874	8,000
217-T.	Christie Tractor.  Waugh & Co.	1872	15,200

There are also four horse-drawn city service trucks, ranging in weights from 6,000 to 10,000 pounds. There are four condemned city service trucks, awaiting disposition, two (2) at Ladder 12's quarters and two at the Veterinary Hospital

# CHEMICAL ENGINES.

Момвек.	Built by	Put in Service.	Remarks.	Capacity. Weight.	Weight.
	Seagrave Company	Feb. 5, 1917	Seagrave CompanyFeb. 5, 1917 Combination, motor driven		Gallons.   Pounds. 35 9,310

# In Reserve.

NUMBER.	Built by	Put in Service.	Remarks.	Capacity. Weight.	Weight.
				Gallons. Pounds.	Pounds.
1	American LaFrance Company	Dec. 1910		100	5,460
2	Babcock Manufacturing Company	Sept. 27, 1876	Sept. 27, 1876 Altered by Henman, 1886	100	4,880
	Babcock Manufacturing Company	1873	1873	100	4,700

# Note. - Five horse-drawn chemicals to be sold.

# WATER TOWERS.

Мумвея.	Built by	Put in Service. Weight. (Pounds.)	ice. W	eight. unds.)
1	American LaFrance Company	Oct., 30,	1 216	14,600
2	Kansas City Fire Department Supply Company	May 17, 1		10,000
3	International Company	Nov. 2, 1903		12,050
4 (Reserve)	Kansas City Fire Department Supply Company Dec. 18, 1893	Dec. 18,	1893	10,000

# Towers are equipped with American-British Company tractors.

# TOOLS AND MACHINERY IN REPAIR SHOP.

Wheelwright and Machine Shop.	1.25 horse power steam engine grinder, 9 by 31.  1 Knowles triplex pump for hose testing.  1.15 horse power motor.  28 by 12, 16 by 12, 16 by 9, 14 by 8, and 14 by 6.  1.16 by 10 speed lathe.  1.16 by 10 wood lathe.  2 dynamos and engines which   1.26 by 26 planer, 8-foot bed.	m 1 planer, 16 by 29, shaper.  1 radial cirill.	3 upright drills.  I wall drill.	1 circular saw. 1 band saw.	1 boring and mortising machine. 2 buzz planers.	Numerous small tools.  1 Brown & Sharpe universal milling machine.	1 motor-driven valve grinding machine.
Engine Room.	1 25 horse power steam engine cylinder, 9 by 31.  I Knowles triplex pump for hose testing.  I 15 horse power motor.  2 dynamos and engines which	supply current to irrealarm and central station.  1 Richardson-Phenix motor oil purifier (Model L).					
Hose and Harness Shop.	1 Buckley electric hose test- ing and expanding engine. 2 electrically-driven sewing machines. Numerous tools and appliation ances for repairing hose 2 electrically-driven sewing machines. Numerous tools and appliation and harmenesses. 2 dynamos and engines which						
Boiler Room.	3 vertical tubular boilers, each 75-horse power. 2 Blake boiler feed pumps.						
. Blacksmith Shop.	5 forges.  1 power hammer.  I gas tire heater.  I tire upsetter.  1 punch and shears.	l lever shears.  I tire roller.	2 rubber tire setters. I bolt eutter.	1 fan blower. 1 power hack saw.			

Also tools for the repair of automobile apparatus.

# EXPENDITURES FOR THE YEAR.

Personal service:		
Permanent employees	\$2,498,919 <b>2</b> 4	
Permanent employees	603 42	
Unaccioned	3.797 03	
Temporary employees		\$2,503,319 69
Service other than Personal:		<b>#2</b> ,000,020
Service other than Personal: Printing and binding Postage Advertising and posting Transportation of persons Cartage and freight Hire of teams and auto trucks, Light and power	\$60 93	
Postage	759 34	
Advertising and posting	31 05	
Transportation of persons	998 31	
Cartage and freight.	243 45	
Hire of teams and auto trucks	1.633 00	
Light and nower	17,929 49	
Light and power Rent, taxes and water	5,796 78	
Promium on surety bond	15 00	
Communication	2,762 81	
Premium on surety bond Communication Motor vehicle repairs and care,	12,472 40	•
Motorless vehicle repairs	2 600 00	
Cleaning		
Cleaning	162 00	
Medical	500 00	
Veterinarian	500 00 647 00	
Personal designation of the service of ventres, etc.	171 00	
Boiler inspection	, 799 52	
Boiler inspection  Photographic and blueprinting General plant	, 199 02	
General plant	39,910 60 7,256 98	
Horseshoeing and clipping .	7,256 98	
Equipment:		101,990 02
Coble wire etc	\$9,130 98	5
Cable, wire, etc	7 505 49	
Electrical	1/3 072 7	
Motor vehicles	7,505 42 143,072 75 2,690 55 7,587 90	,
Stable	7 597 Q	) 1
rurniture and ittings	. 7,587 90 . 876 2'	7
Office	56 2	
Marina	. 30 8	, 5
Stable	28,704 9	
1 oois and mistruments .	. 20,101	<u>.</u>
Wearing apparel General plant	2,537 6	9
General plant	. 2,351 0	224,679 68
Cumpling		221,010 00
Supplies:	. \$5,204 6	R
Office Food and ice	. \$26 1	7
rood and ice	. 78,316 1	
Fuel Forage and animal	. 18,310 1 . 14,873 2	) )
Forage and animal .	14,813 2	1
Medical, surgical, laboratory	. 144 0	1
Carried forward	. \$99,364 7	9 \$2,829,990 19

Brought forward	\$99,364 79	\$2,829,990 19
Veterinary	28 64	
Laundry, cleaning, toilet	2,312 71	
Motor vehicle	21,789 86	
Chemicals and disinfectants .	2,275 01	
General plant	4,839 63	
Cloth	22 50	
		130,633 14
Materials:		100,000 14
D!1.1!	\$15,311 44	
Electrical	910,011 44	
General plant	\$15,311 44 2,856 34 33,790 61	
General plant	55,790 01	F1 0F0 90
Charial itamin		51,958 39
Special items:	*****	
Pensions and annuities	\$238,033 25	
Workingmen's compensation .	1,353 70	
		239,38695
		\$3,251,968 67
Wire Division:		
Personal service:		
Permanent employees	\$76,007 42	
Service other than Personal:	,	
Printing and binding, \$17 70		
Postage 200 00		
Advertising and post-		
ing 107 40		
Transportation of		
persons 2,487 66		
Premium on surety		
bond 6 00 Communication . 347 04		
Essa assession . 547 04		
Fees, service of ve-		
nires, etc. 2 00		
Photographic and		
blueprinting 2 15		
General plant 27 40	0.40	
	3,197 35	
Equipment:		•
Equipment:  Electrical		
Motor vehicle 3,304 25	•	
Tools and instru-		
ments 28 30		
	3,446 87	
Supplies:	,	
Office \$1,865 65		
Office       .       \$1,865       65         Motor vehicle       .       344       75		
General plant 1 85		
Control plante 1 00	$2,212\ 25$	
	2,212 20	
Carried forward	\$84.863.80	\$3,251,968 67
Carrica jornara	\$01,000 G9	\$0,201,800 UI

Brought forward				\$8	34,863	89	\$3,251,968	67
Materials:		@1A	00					
Electrical General plant .	•	\$10	00					
General plant .	•	90	00		60 8	20		
Special items:					00 8	00		
Pensions and annui	tion				612	50		
Pensions and annui	ties	•	•		012	90	85,537	97
							00,001	
							\$3,337,505	074
							\$5,551,505	71
Eng	INE	7, N	<b>TEW</b>	Bun	LDING			
Payments on account								
Contractors, C. & F	Co	nstri	uctio	n Co	mnan	v.	\$16,660	00
Blueprints	<b></b> 00	11001	actic	11 00	mpan	<i>J</i> ,	93	81
Advertising .	•	•	•	•	·	•	10	35
nerveroising .	•	•	•	•	•	٠		
							\$16,764	16
			,				#207.02	
Remodelin	G Н	ouse	. En	GINI	z 26 A	ND	35. ·	
Continuation of paym							\$8,715	95
Contractor, Joseph			•	•	•	•	2,371	
Composition floors	•	•	•	•	•	٠	287	
Brass railings .	•	•	•	•	•	•	76	
Flagpole parts .		•	•	•	•	•	60	
One case	•	•	•	•		٠	$\frac{60}{22}$	
Advertising	•		•	٠	•	٠	10	
Blu prints	•		•	•		•	10	45
							\$11,542	83
							911,042	00
		-					10	
REMODELING Ho	OUSE	, En	IGINE	28	AND	LAI	DDER 10.	
Continuation of paym	ents	3.						
Contractor, Burton M	I. Gv	vinn,	final	pay	ment		\$9,997	00
,		Í						
	REC	CAPIT	ULAT	TION.				
Fire Department							\$3,337,505	94
Engine 7 new building	or ·	•		•	•		16,764	16
Fire Department . Engine 7, new buildin Remodeling house, En	ngina	26	and '	35		•	11,542	
Remodeling house, En	ngina	28	and .	Lado	ler 10	•	9,997	
Tromodoling nouse, 121	ug III (	0	anu .	i auci	101 10	•		
							\$3,375,809	93
							-,-,-,-,-	

# INCOME.

Permits for fires	in	oper	sp	aces	, fire	worl	ζS,		
blasting, trans									
explosives .								\$13,093	50
Sale of old materia	al							1,357	
Sale of wagon and	harı	ness						120	00
Sale of badges								979	00
Damage to hose								8	40
Damage to fire ala	ırm ı	oosts	and	box	es			932	58
Sale of coal and oi	1							24	96
Damage to appara	tus							111	30
Sale of manure								47	25
Sale of Ediphone								100	00
Coal penalty .								. 61	17
Wire Division:								\$16,836	03
Permits .								55,753	63
								\$72,589	66

ALARMS, FIRE LOSES AND INSURANCE.

	royed.	Totally Dest	:	:	:	:	:	:	:	:	:	:	:	-	
pje.	sidera	по Вата Соп	5	=	6	70	₹0	oc	က	4	ಣ	4	7	13	77
	.34	Damage Slig	215	154	190	153	182	119	140	80	113	155	161	199	1,861
	,91	по Вапра В Оп	122	06	88	82	49	28	55	46	52	103	111	132	988
	-	Out of City.	1-	-	10	Ξ	7	2	2	_	П	9	ಣ	4	20
	.gui	Mot in Build	57	47	337	472	326	123	147	76	100	194	238	94	2,232
.6	Others	Extended to	ಣ	4	00	2	က	က	23	ಣ	C)	00	70	6	55
' <i>ਡਿ</i> t	riblin8	Confined to l	339	251	279	235	233	182	196	127	166	254	274	336	2,872
	;	Needless.	53	38	41	36	32	38	34	31	40	47	39	45	474
	STILL.	Fue. ~	203	135	362	441	331	163	173	122	131	253	281	222	2,817
ALARMS		Needless.	17	10	15	10	9	18	15	18	21	16	12	14	172
AL	BELL.	False.	11	10	==	14	11	21	21	10	15	21	13	11	169
	B	Fire.	203	168	267	282	238	147	174	901	138	209	239	221	2,392
	NOE.	Contents.	\$2,105,507	5,204,166	2,170,436	985,787	6,474,161	1,607,354	1,581,703	524,193	867,000	2,572,050	1,558,551	2,957,151	\$28,608,059
	INSURA	Buildings.	\$4,222,053	5,595,950	4,214,704	2,631,929	3,846,525	2,988,501	2,551,035	2,902,900	1,507,458	2,202,582	4,674,272	7,548,524	\$44,886,433
	ý,	Contents.	\$176,522	240,398	329,766	134,618	143,240	381,949	119,963	86,779	38,466	65,496	176,979	195,989	\$2,090,161
-	Lors	Buildings.	\$138,935	135,711	127,784	66,594	82,800	83,737	86,337	76,754	30,932	48,747	118,610	217,493	\$1,214,434
		Total.	496	366	705	789	979	405	427	298	353	561	290	521	6,134
		Опкломп.	12	=======================================	15	11	10	19	23	12	16	22	13	12	174 6
IVED.	M.	Automatic.	17	10	14	12	16	19	14	13	11	15	6	15	165
RECEIVED	и Wном	Telephone,	157	26	278	361	222	102	102	06	68	206	212	166	082
ALARMS	FROM	C tizens.	280	224	373	383	355	242	274	177	221	300	331	303	3,472 2
A.		Police,	13	18	15	16	18	14	12	50	14	13	20	18	176 3,472
		Members.	_∞	9	10	9	22	9	4	-	7	5	23	7	65
		Момтив.	January	February	March	April	May	June	July	August	September	October	November	December	Totals

# Causes of Fires and Alarms from January 1, 1922, to January 1, 1923.

		,	
Alarms, false, needless, bell	ł	Grease in ventilator	61
and still	815	Hot ashes in wooden recep-	
Alarms, out of city	50	tacle	89
Automatic alarms, false and		Incendiary and supposed .	18
accidental	110	Lamp upsetting and explo-	
Automobiles	281	sion	21
Brush, rubbish, etc	1,534	Miscellaneous	338
Careless use lamp, candle, .	65	Oil stove, careless use and	
Careless use matches and		explosion	49
set by rats	459	Overheated furnace, stove,	
Careless use pipe, cigar and	100	boiler	107
cigarettes	468	Set by boys	143
	253	Sparks from chimneys,	1 10
Chimneys, soot burning .			191
Clothes near stove	19	stove	131
Defective chimney, stove-		Sparks from locomotive en-	
pipe, boiler	112	gine	71
Electric wires, motors .	157	Spontaneous combustion .	116
Fireworks and firecrackers.	24	Thawing water pipes	47
	67		517
Gas jet and gas stove		Unknown	914
Gasolene, naphtha, benzine,	12		0.404
		Total	6,134

,		FIRE EXTINGUISHED BY									
1922.	Extinguishers.	Buckets of Water.	Chemical Engines.	Hydrant Streams.	Steamers.	Miscellaneous.	Citizens.				
January	92	41	100	29	50	59	28				
February	69	25	82	24	40	39	23				
March	102	56	95	112	35	195	29				
April	97	88	90	176	33	191	37				
May	111	59	92	117	32	105	46				
June	76	44	45	49	27	40	27				
July	82	35	61	66	24	41	36				
August	68	20	46	24	19	27	23				
September	77	32	59	26	21	29	24				
October	117	55	80	72	26	69	37				
November	109	65	92	75	30	107	39				
December	89	44	98	52	33	76	47				
Totals	1,089	<b>5</b> 64	940	822	370	978	396				

# FIRES WHERE LOSSES EXCEEDED \$15,000.

DATE. 		Location and Owner.						
Jan.	14	90 and 92 Essex street, Acorn Clothing Company et al	\$15,25					
Jan.	20	99-105 Richmond street, R. Goodnow Estate et al	79,77					
Jan.	24	1028–1044 Blue Hill avenue, S. Gorfey et al	21,96					
Jan.	30	1090-1104 Commonwealth avenue, M. Straussel et al	26,57					
Feb.	1	6, 7 and 8 Brighton Abbatoir, Lebonan Kosher Wurst Company	45,48					
Feb.	7	Brighton Abbatoir, Brighton Dressed Beef Company et al	55,49					
Feb.	9	62-266 Friend street, Aronson Brothers et al	36,82					
Feb.	13	39 and 41A Washington street, Royal Clothing Company et al	20,60					
F.eb.	20	77 Washington Street North, Daniels Printing Company et al	20,79					
Marcl	h 2	605–611 Washington street, Bowdoin Manufacturing Company et al.	56,43					
Marcl	h 16	372–378 Boylston street, I. Schneider et al	20,20					
Marcl	n 25	Rear of 81 Wareham street, Gordon Supply Company et al	170,5					
Marcl	h 30	7 Albany street, J. Pearl & Co	26,1					
April	29	39–43 Tremont street, Kimball Company, Inc., et al	76,4					
May	18	49-51 Fulton street, Beacon Grocery Company et al	41,09					
May	24	154–160 Washington street, Smith Manufacturing Company et al	24,80					
May	30	272 Border street, Acme White Lead Works	49,5					
June	4	44-56 Pitts street, C. Bonanno Laundry Company et al	17,20					
June	10	168 and 170 A street, Blake, Boas & Kelligrew et al	302,8					
June	2	24-30 School street, Kriss Typewriter Company et al	23,2					
Tune	27	89-95 Chauncy street, G. S. Moloof & Son et al	24,6					
uly	1	718 Commonwealth avenue, W. Kaplan et al	16,4					
uly	13	Rear of 100 and 102 Condor street, Boston & Lockport Block Company	50,7					
uly	27	395 Boylston street, H. F. Miller & Sons et al	26,1					
lug.	3	18 and 20 Oxford street, Standard Hat and Cap Company et al.,	18,9					
lug.	8	14-24 Federal street and 123 Congress street, Harris Forbes Company, Inc	24,8					
Aug.	18	93 Cummings street, Daly Plumbing Supply Company et al	25,4					
Aug.	22	47 Union avenue, Atlantic Ice Cream Cone Company et al	21,0					
Aug.	24	76 and 78 Westland avenue, S. Schlesinger Estate et al	18,8					
Oct.	13	55 and 57 Causeway street and 40 Lancaster street, American Syrup Company <i>et al</i>	15,5					

Loss.

\$14,337

# Fire Losses.—Concluded.

DATE.

Marine loss

Location and Owner.

	DAIL.		Loca	tion at	ia O WI	101.			2055.	
Oct.	26	27 Scotia street	, Edison I	Electri	e Illum	inati	ing Com	pany	\$15,0	000
Nov.	13	393-407 Dorch Company et e	ring 27,2	273						
Nov.	18	46-54 Bromfield								
Nov.	28	44 and 48 Portla								
Dec.	4	680-684 Washin								
Dec.	16	107 and 109 We	st Brookl	line str	eet, S.	Alpe	rin et al		35,6	662
Dec.	17	94–98 Washing et al	ton street	t, Mors	e Offic	e Eq	uipment	Comp	any 19,1	06
Dec.	21	39 Newbury st	reet, F. I	. Dun	ne et al				16,5	96
Dec.	28,	19–23 Damrell s	street, M	cLean l	Manuf	actu	ring Con	npany e	et al., 31,5	511
Dec.	29	704-724 Washii	ngton stre	eet, R.	B. Brig	ghtor	n Estate	et al	71,3	36 6
									1	=
			STAT	TIST	cs.					
Pop	ulation.	January 1,	1923	(estin	nate	d)			832,67	78 <sup>-</sup>
		e miles		,					47.8	
		ick, etc., bu	ildings	8.					33,76	38
Nun	nber of	wooden bui	ldings						77,67	73
Fire	s in bri	ck and ston	e build	lings			1,6	60		
Fire	s in wo	oden b <mark>ui</mark> ldir	$_{ m ngs}$				1,2			
								50		
Not	in buil	dings, false	and ne	eedle	SS		3,1	.57		
	Total a	larms .							6,13	34
Fra	T Logo	FOR THE	Vala	E.	0.1310	· T	D CD3	*DED	21 1099	0
			I EAR	LYIN.	DING	i L	ECEN	IBER		
		ss insured		-					\$1,183,04	
Con	tents, l	oss insured	•		٠	٠		٠	1,992,27	(6
									00 177 00	
									\$3,175,32	21
		oss not insu					\$31,3			
Con	tents, l	oss not insu	red				97,8	885	400.05	
									129,27	4
	Total l	oss building	s and	cont	ents				\$3,304,59	- 95

### YEARLY LOSS FOR THE LAST FIFTEEN YEARS.

Year	ending	February	1, 1908				\$2,268,074
"	"		1, 1909				3,610,000
"	"	"	1, 1910				1,680,245
"	"	"	1, 1911				3,159,989
"	"	January	1, 1912	`	. ′		2,232,267
"	"	"	1, 1913				2,531,017
"	"	"	1, 1914				* 3,138,373
"	"	"	1, 1915				3,013,269
"	"	"	1, 1916				3,004,600
"	"	"	1, 1917				† 2,372,489
"	"	"	1, 1918				13,981,227
"	"	"	1, 1919				2,822,109
."	"	"	1, 1920				2,577,584
"	"	"	1, 1921				3,139,566
"	"	"	1, 1922				4,010,201
"	"	"	1, 1923				3,304,595

\* Does not include marine loss of \$1,116,475, steamship "Templemore."
† Does not include marine loss of \$101,312, steamship "City of Naples" et al.
‡ Does not include marine loss of \$75,660.
Note.—January loss, 1911, amounting to \$165,001, deducted from previous year and included in calendar year January 1, 1911, to January 1, 1912.

# ALARMS FOR THE PAST TEN YEARS.\*

Year.	Bell.	Still and Automatic.	Totals.
1922	2,733	3,401	6,134
1921	2,359	2,888	5,247
1920	2,029	2,456	4,485
1919	2,733	2,690	5,423
1918	2,413	2,649	5,062
1917	2,252	2,526	4,778
1916	2,350	2,128	4,531
1915	2,847	2,590	5,437
1914	2,945	2,589	5,534
1913	2,594	2,322	4,916

<sup>\*</sup> Each fire is treated as having only one alarm.

ROLL OF MERIT, BOSTON FIRE DEPARTMENT.

James F. McMahon, District Chief.

Edward McDonough, Captain Engine Company 6. Thomas J. Muldoon, Captain, Engine Company 16. Thomas H. Downey, Captain, Engine Company 22. Michael J. Teehan, Captain, Engine Company 24. Joseph P. Hanton, Captain, Engine Company 33. Dennis Driscoll, Captain, Engine Company 37. Frederick F. Leary, Captain, Ladder Company 3. Henry J. Kelley, Lieutenant, Engine Company 32. Timothy J. Heffron, Lieutenant, Ladder Company 9. Michael J. Dacey, Lieutenant, Ladder Company 20. John J. Kennedy, Ladderman, Ladder Company 13. Martin A. Kenealy, Captain, retired. James E. Downey, Hoseman, retired.

Members Pensioned from February 1, 1922, to February 1, 1923.

Peter E. Walsh.
John T. Gillen.
Robert H. Webber.
Jacob Hyman.
James M. Burke.
James Mahoney (Fire Alarm).
Eugene G. Allen.
Thomas J. Lacey.
Joseph L. Bannon.
Albert S. Penney.
Bent E. Benson.
Michaelangelo Laurano.
John H. Barutio.
John T. Conley.

Patrick J. Darcy.
William Pease.
Fitzgerald M. O'Lalor.
Daniel L. Cadigan.
William E. Boyd.
Frank L. Jewett.
William A. Pickard.
William E. Riley.
Bartholomew F. Hayes.
DeWitt Lane.
Thomas F. Quigley.
Daniel J. Kennedy.
Thomas F. Hedrington.

DEATH OF MEMBERS FROM FEBRUARY 1, 1922, TO FEBRUARY 1, 1923.

John J. Connorton.
William J. Hennessey.
Christopher J. Melia.
Daniel J.Quinn, Headquarters.
Lawrence H. Donahue.

William C. Swan.Patrick J. Norton.John F. Higgins, Bureau of Supplies and Repairs.Alexander F. Smith.

Death of Pensioners from February 1, 1922, to February 1, 1923.

George W. Fuller, Wire Division.
Frank Turnbull.
Charles H. Cosgrove.
William F. Bryan.
William H. Barker.
Hadwin Sawyer.

John A. Noonan.
John S. Cleverly.
Nicholas Albrecht.
Frank P. Chapman.
John E. Madison.
Joseph S. Pine.

CHANGES F	FROM	FEBI	RUAR	y 1	, 192	22, т	o F	EBRU	JARY	1,	1923.
Number of	men a	appoi	nted	to f	ire fo	orce					17
Number of							,				2
All others											
Resigned											
Discharged											5
Pensioned									.*		27
Deaths .											
Pensioners	died										12

### BOSTON FIREMEN'S RELIEF FUND.

Boston, September 12, 1922.

To the Members of the Body Corporate of the Boston Firemen's Relief Fund, Boston, Massachusetts.

Dear Sirs,— We hereby certify that we have audited the accounts of the Treasurer of the Boston Firemen's Relief Fund to the close of business August 31, 1922, and find them correct.

The deposits in the banks and the checks drawn thereon have been compared with the accounts received from the banks, and have been found to agree therewith, and are all properly entered on the books of the treasurer.

Income from all sources is accounted for. Payments are supported by proper vouchers or by paid checks, and the balance on hand at close of business August 31, 1922, is correct.

We examined the securities belonging to the fund, consisting of \$156,000 City of Boston registered bonds; \$8,000 Chicago, Burlington & Quincy coupon bonds; \$54,100 Liberty Loan; \$7,000 City of San Francisco Hospital; \$13,000 City of New Bedford bonds, and certificates of stocks received from the estates of Anne Sargent and Franklin P. Hyde, also \$1,000 war savings stamps.

We have seen a bond issued by the Employees' Liability Assurance Corporation, Ltd., of New York, to D. J. Caddigan, treasurer, for \$25,000.

A summary of receipts and disbursements for the year ending August 31, 1922, is appended hereto.

Respectfully submitted,

Amos D. Albee Son & Co., Certified Public Accountants. RECEIPTS AND DISBURSEMENTS FROM SEPTEMBER 1, 1921, TO AUGUST 31, 1922.

Receipts.	
Balance, September 1, 1921	\$5,273 36
Amount received from ball fund	24,079 25
Interest on bonds	
Less accrued interest paid 89 58	
	7,362 92
Interest on Liberty Loan bonds	2,374 25
Dividend on stocks	271 40
Interest on deposits	157 36
Donations	335 00
City of Boston bonds matured	11,000 00
	ØEO 959 54
	\$50,853 54
Disbursements.	
,	
Death and sick benefits, gratuities, medical attend	
ance and medicine	\$24,294 40 800 00
Treasurer's bond	300 00
Salaries	
Less relating on former bond 94 05	27 91
Free bed, Carney Hospital	300 00
Box at International Trust Company vaults	10 00
Auditing, twelve months	180 00
Expenses, stationery, printing, etc	378 50
Protectograph purchased	58 80
Legal services	75 00
Paid Hiram Averill, claim of 1916	90 00
Bonds purchased	14,662 50
	\$40,877 11
Balance, Exchange Trust Company	. 1,933 62
Balance, American Trust Company	. 42 81
Exchange Trust Company Savings Department	. 8,000 00
	\$50,853 54



